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Richards-Wilcox

DOOR HARDWARE

A. I. A. File No. 27



A. I. A. File No. 27



GENTLEMEN

**This New Catalog No. A-400 Supersedes
All General Catalogs previously issued
by us . . . the A-400 is not intended to**

**be a General Catalog showing specific details of all R-W products . . . But has
been redesigned to feature Door Hardware only. Individual catalogs covering
the items previously shown in the General Catalog are now available in Sup-
plementary Catalogs . . . These individual catalogs along with a binder will
now make up the General Catalog for Richards-Wilcox.**

GENERAL HARDWARE DIVISION

- Door Hardware
- Industrial Doors
- Fire Doors
- Ladders
- Airplane Hangers
- Stage Curtain Equipment

ELECTRIC DOOR OPERATOR DIVISION

- Introduction to Electric Operators
- Sliding - Folding and Sliding Doors
- Swinging Doors
- Overhead and "Vertical-Lift" Doors
- Gates
- Special Application
- Control Systems

MATERIALS HANDLING DIVISION

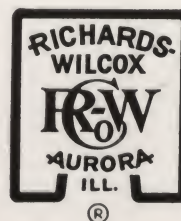
- No. 2035 "Zig-Zag" Power Chain Conveyor
- "Twin-Trak" Automatic Dispatch Conveyor
- No. 458 Chain Conveyor
- No. 460 Lightweight Chain Conveyor
- "Safe-Rail" Free Trolley Systems
- "Trolley Track" Free Trolley Systems
- "Tru-Tred" I-Beam Systems
- Cranes

SCHOOL EQUIPMENT DIVISION

- Folding Partitions
 - Partition Doors—Schools
 - Partition Doors—Hotels
 - Partition Door Architectural Data
 - Door Facings Materials
- Wardrobes

In the interest of progress and improvement these specifications may be changed without notice.

Dimensions shown are approximate. For exact dimensions certified prints will be sent.



The Symbol of Quality
Since 1880

*To find what you
want quickly - - -*

**HOLD AS PICTURED WITH RIGHT
THUMB ON DESIRED SECTION.**

**OPEN CATALOG AT BLACK MARK
APPEARING OPPOSITE DESIRED SECTION.**



**VANISHING DOOR
HARDWARE**

**GARAGE DOOR
HARDWARE**

**SLIDING DOOR HANGERS
AND TRACKS**

DOOR TRIM HARDWARE

HINGES

HARDWARE SPECIALTIES

INDUSTRIAL HARDWARE

ELECTRIC OPERATORS

INDUSTRIAL DOORS

**FIRE DOORS
AND HARDWARE**

**MATERIALS HANDLING
EQUIPMENT**

**PARTITIONS AND
WARDROBES**

AIRPLANE HANGAR

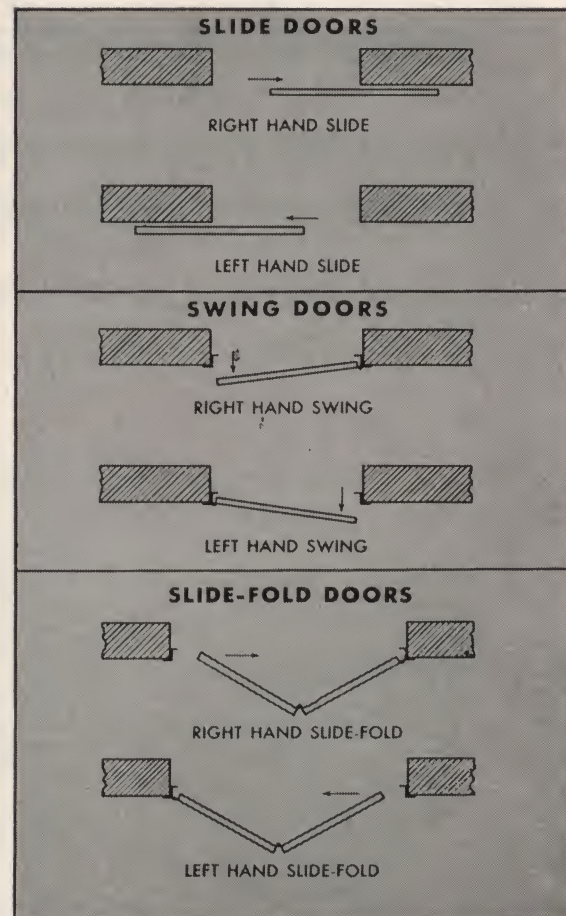
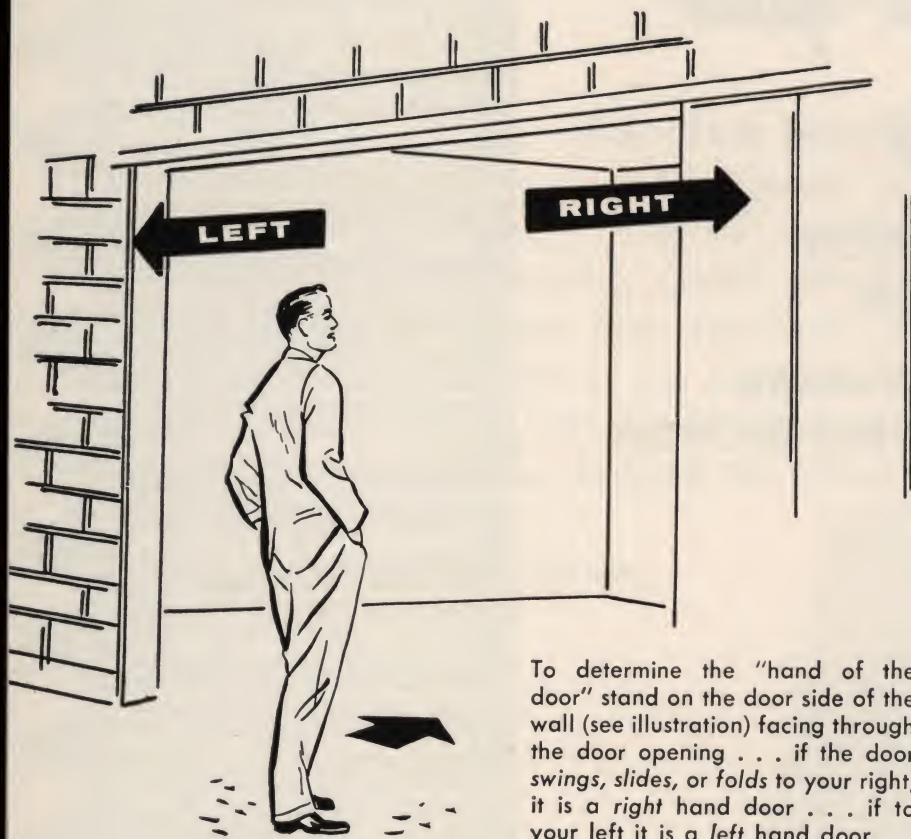
LADDERS

STAGE CURTAIN TRACK

OPEN FRONT HARDWARE

APPENDIX AND INDEX

How to Determine the Hand of an R-W Door or Lock



LOCKS, CYLINDERS AND DOOR CLOSERS

When ordering Locks and Cylinders or Door Closers . . . Be sure to specify whether or not they are to be used on the hinge side.

PANIC BOLTS

For Hand of Panic Bolts see Page No. 115.

R-W Fire Doors, Fire Door Hardware and Accessories are Underwriter Laboratories and Factory Mutual approved. R-W Fire Doors are available with flat, all-steel surface and corrugated sheet metal for sliding, hinged or vertical doors with flat or round track, single or double-link operation.

**"SILVER
STREAK"
Vanishing
House
Door
Hardware**

**"Modern Homes Demand
R-W Modern Hardware"**

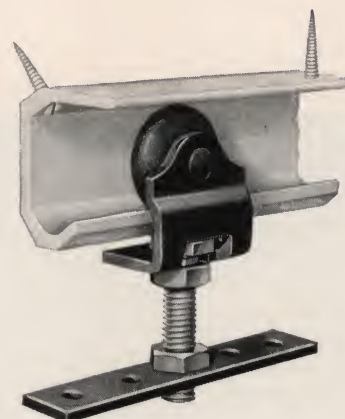
SILVER STREAK Hangers and Track



"SILVER STREAK" Hangers and Track Are
Ideal for Closet Doors.



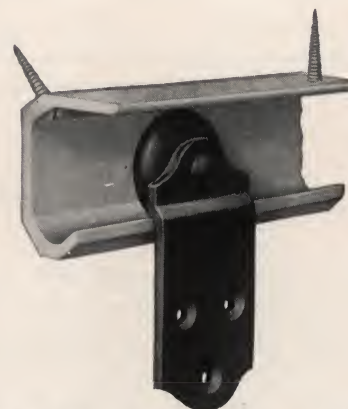
**"SILVER STREAK IS IDEAL WHERE-
EVER A SLIDING DOOR
CAN BE USED."**



Single Wheel Silver Streak
Adjustable Hanger for 100 lb. Doors
No. 1019 Steel. No. 1018 Solid
Bronze



Two Wheel Silver Streak
Adjustable Hanger for 200 lb. Doors
No. 2018 Steel. No. 2019 Solid
Bronze



Single Wheel Silver Streak Junior
Non-Adjustable Hanger
for 100 lb. Doors
No. 3019 Steel

SILVER STREAK Hangers and Track

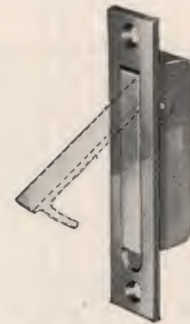
•Use

For doors, 3/4" or more in thickness.
Nos. 1018, 1019, and 3019 for 100 lb. doors.
Nos. 2018 and 2019 for 200 lb. doors.

•Construction

Nos. 1018 and 2019, solid bronze for areas subject to corrosive conditions.
Nos. 1018, 1019, 2018, and 2019 attached to top of door by plate 3/4" wide.
No. 3019 attaches to face of door.
Wheels, nylon.

Cat. No.	Frame, Pendant Plate or Apron	Diameter Wheels	Weight per Pair	Finish
1018	Solid Bronze	1-1/4"	1-1/8 Lbs.	Natural Bronze
1019	Steel	1-1/4"	1 Lb.	Silver
2018	Steel	1-1/4"	1-1/2 Lbs.	Silver
2019	Solid Bronze	1-1/4"	1-3/4 Lbs.	Natural Bronze
3019	Steel	1-1/4"	7/8 Lb.	Silver



R-W No. 1019-1
End Door Pull



R-W No. 1019-2
Flush Pull

•Packed

One pair hangers in carton with one No. 1019 floor guide.

•Silver Streak Track

Extra hard composition extruded aluminum. 1-9/16" high.
Available in 4', 5', 6', 7', 8', and 10' lengths. Weight per foot 1/2 lb. Order track equal to twice width of opening.

Extras—Sold Separately

•No. 1019-1 End Door Pull

Used in the end of door to pull door out of a pocket. Dull brass finish. For doors 1-1/8" or more in thickness. 3-29/32" long, 13/16" wide, 13/16" deep. Weight, each, 2 ozs.

•No. 1019-2 Flush Pull

Used on side of door. Dull brass or dull bronze. 3-1/16" long, 1-9/16" wide, 3/8" deep. Weight, each, 1 oz.

•No. 1019-3 Flush Pull or End Door Pull

Used in the end or on the side of door. Dull brass or dull bronze with dead black finger grip. 3-1/16" long, 1-1/8" wide, 3/8" deep. Weight, each, 1 oz.

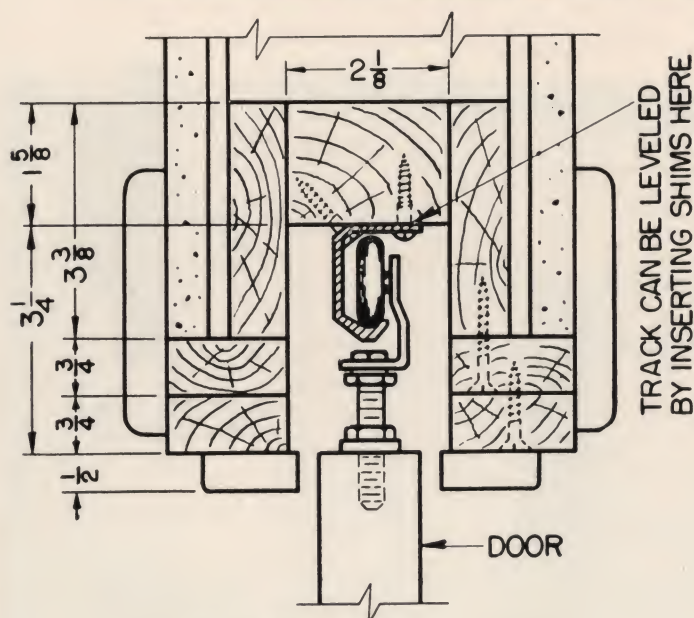


R-W No. 1019-3
Combination Flush Pull or
Door Pull End

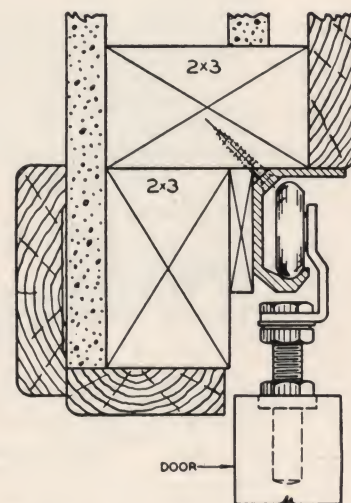


R-W No. 1019 Floor Guide

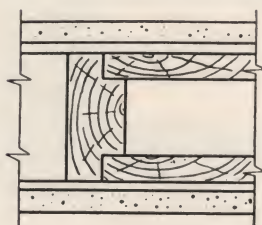
Erection Details of Silver Streak Hangers



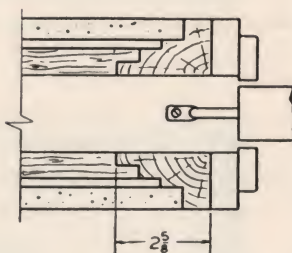
*Silver Streak Hanger on Single Sliding Door



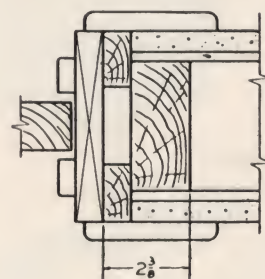
Silver Streak Hanger in 2 x 3 Studded Wall



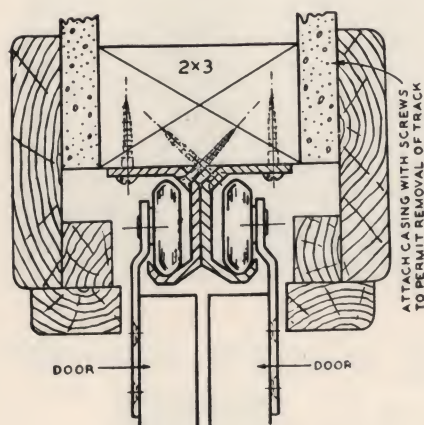
SECTION C-C



SECTION D-D



SECTION E-E

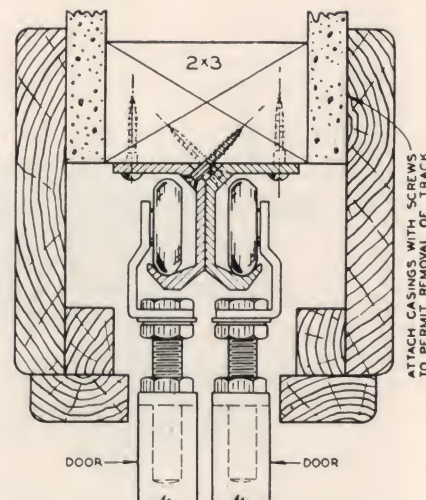


No. 3019 Hangers on Parallel Sliding Doors



NO.1019 FLOOR GUIDE DETAIL
SCREW TO FLOOR BEFORE PUTTING DOOR IN PLACE

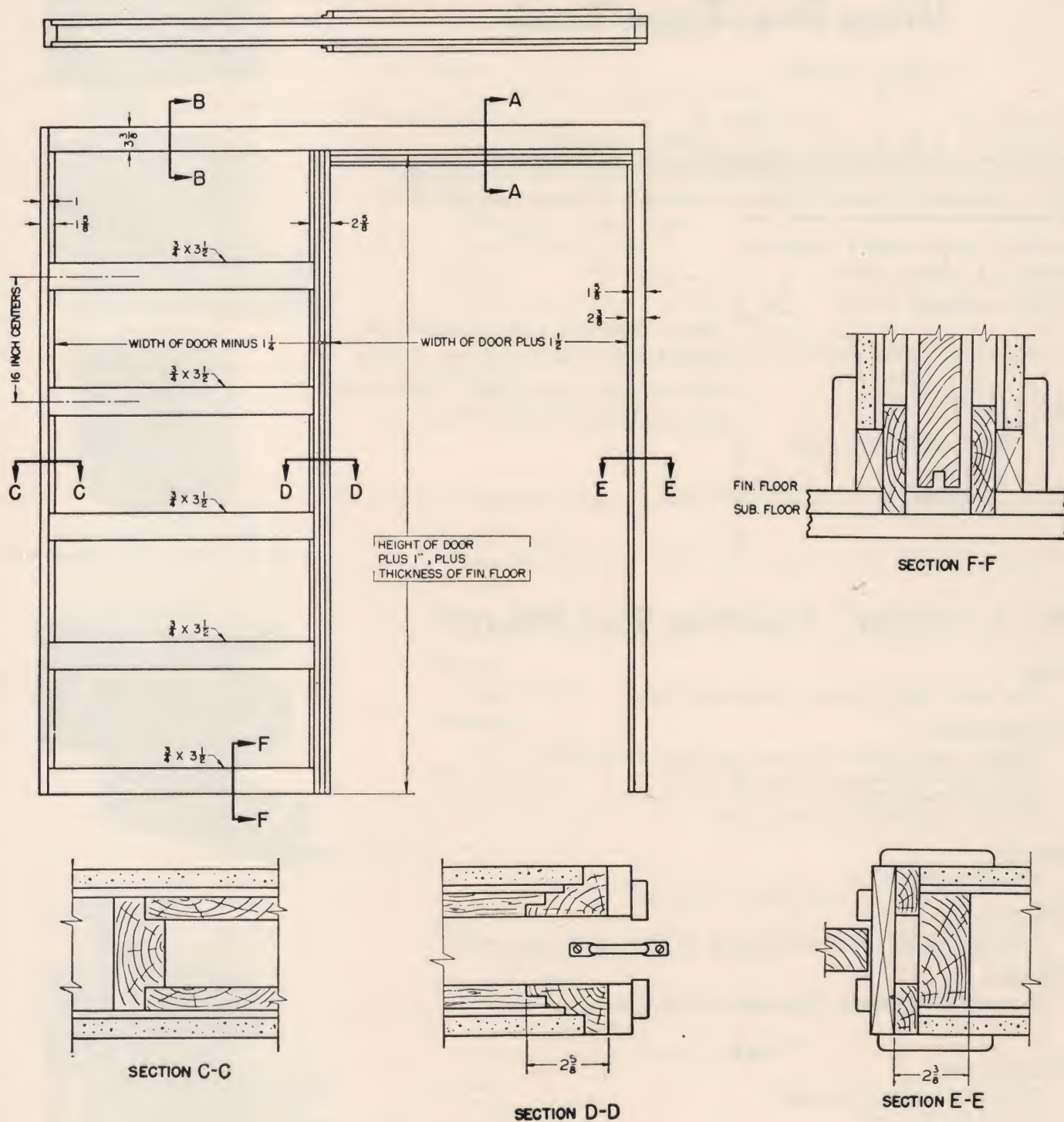
5/16" GROOVE 1/2" DEEP
FULL WIDTH OF DOOR



Silver Streak Hangers on Parallel Sliding Doors

*See Page 7 for details of door pocket.

R-W Wood Frame Design for 2"x4" Standard Studded Plastered Wall Adapted to the Use of Vanishing Doors



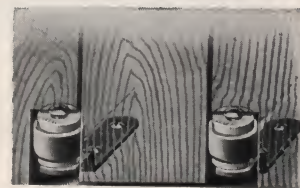
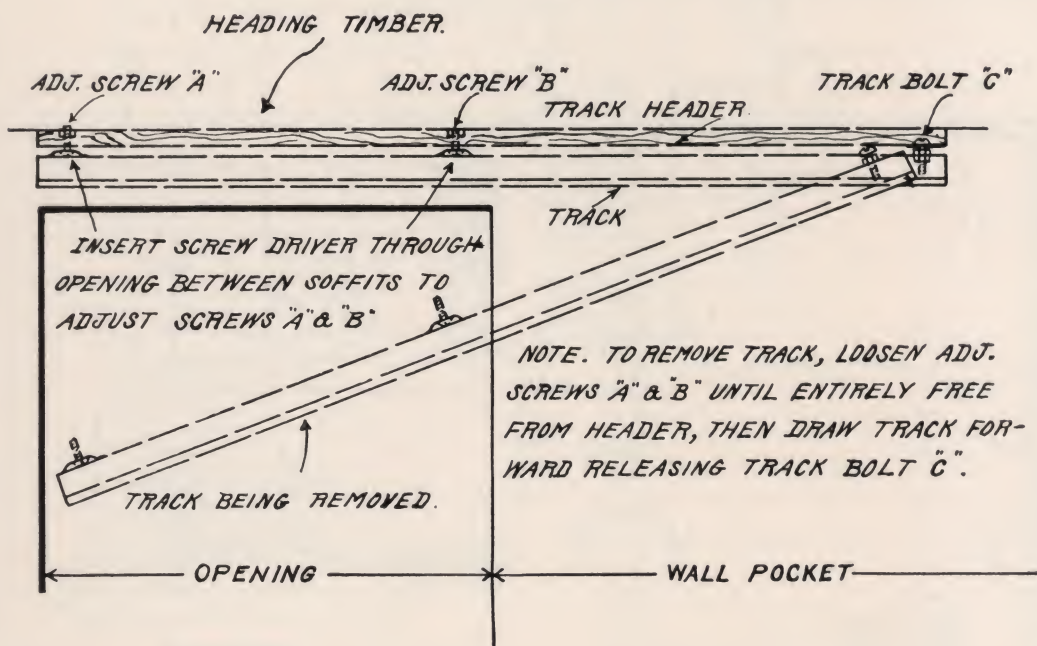
This pocket frame can be specified and built at the mill supplying other millwork or can be made by carpenters at the building.

Due to the thinness of the wall pocket it is not recommended that it be used for single Vanishing Doors more than 4' wide or for double doors in openings more than 8' wide.

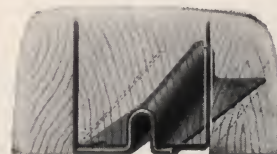
The pocket frame is entirely separate from the wall into which it is to be placed and is not designed to carry floor or other loads above.

The space for track and hanger is 2-1/8" wide or the width of the header piece as supplied with most R-W Vanishing Door hangers shown on the following pages. See notations on such pages.

Installation of Vanishing Door Hangers Using Box-Type Track



No. 9 Floor Door Guide



No. 19 Floor Door Guide



No. 19 Center Door Stop
Sold Separately for Bi-Parting Doors

No. 4 "Trojan" Vanishing Door Hangers

•Use

For heavy interior doors not over 300 lbs.

•Construction

Wheels, steel unless otherwise specified, 3" diameter.
Fibre wheels furnished on special order.
Bearings, steel balls.
Frame, one piece drop forged steel.

•Finish

Cadmium plated.

•Packed

One pair hangers complete and No. 19 floor guide with screws.

•Weight

Per pair, steel wheels, 8 lbs.; fibre wheels, 7 lbs.

Track

•Construction

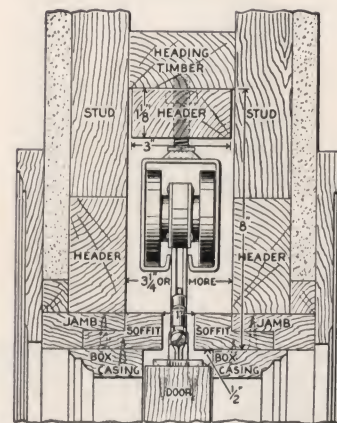
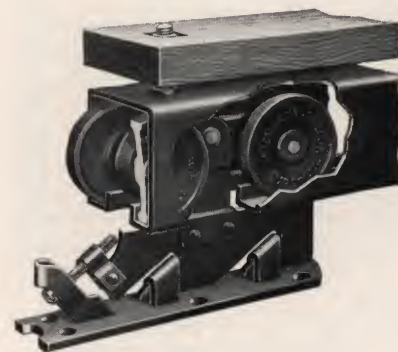
Furnished with wood header.
No. 14 gauge steel.

•Weight

Per foot, 4 lbs.

•To Order

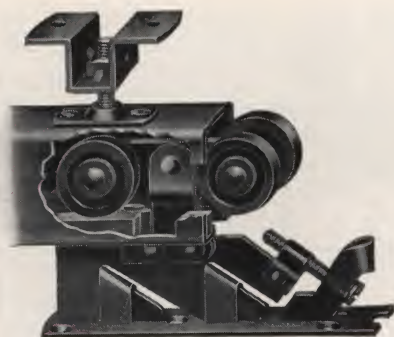
Order track to equal twice width of opening.



Cross-Section Through Head Jamb

Vanishing Door Hangers

No. 1221 Silent Door Hanger



No. 1221

•Use

For doors weighing up to 175 lbs.

•Construction

Wheels, rubber, 1-1/2" diameter, center of hard vulcanized rubber with soft rubber rim.

Bakelite roller guide to provide self-alignment of hanger.

Frame, drop forged.

Bearings, steel balls.

•Finish

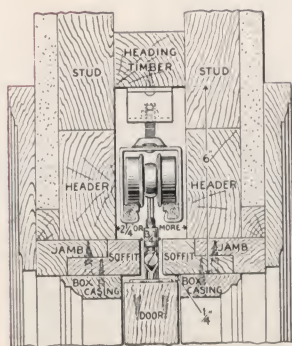
Cadmium plated.

•Packed

One pair hangers in a box with screws and No. 19 floor guide.

•Weight

Per pair, 3-1/2 lbs.



Cross-Section Thru
Head Jamb

No. 221 Track

•Construction

No. 16 gauge steel with hard maple lining clinched into position.

•Stock Lengths

4', 4' 6", 5', 5' 6", 6', 6' 6", 7', 7' 6", 8', 8' 6", 9', 9' 6", 10'.

•Finish

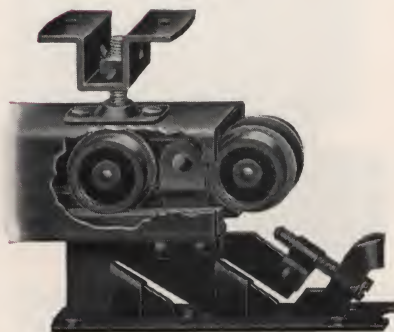
Gray enamel.

•Weight

Per foot, 2-1/2 lbs.

•To Order

*Order track to equal twice width of opening.



No. 221

No. 221 "Advance"

•Use

For doors weighing up to 175 lbs.

•Construction

Wheels, pressed steel, 1-7/8" diameter, flange on inside.

Frame, drop forged.

Bearings, hardened steel balls.

•Finish

Cadmium plated.

•Packed

One pair hangers in a box with screws and No. 19 floor guide.

•Weight

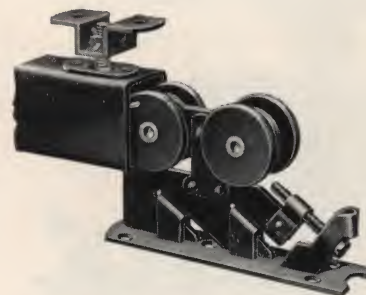
Per pair, 4 lbs.

*For bi-parting doors, No. 19 center stop (page 8) is sold separately.

Vanishing Door Hangers for No. 19 Track

No. 16 "Twin" Vanishing Door Hanger

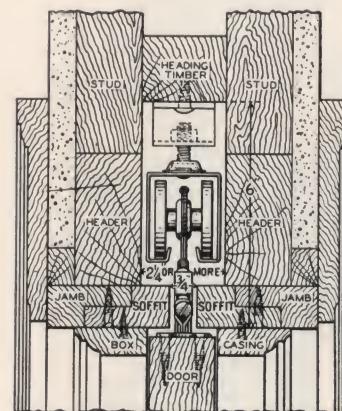
- **Use**
For residential sliding doors up to 175 lbs.
- **Construction**
Wheels, vulcanized fibre, 2-1/8" diameter.
Bearings, steel balls.
- **Finish**
Cadmium plated.
- **Packed**
One pair in a box with screws and No. 19 floor guide.
- **Weight**
Per pair, 3-1/2 lbs.



No. 16 Hanger

No. 19 Track

- **Construction**
No. 16 gauge steel, furnished with steel clip.
Adjustable as illustrated.
- **Stock Lengths**
4', 4'6", 5', 5'6", 6', 6'6", 7', 7'6", 8', 8'6", 9', 9'6", 10'.
- **Finish**
Gray enamel.
- **Weight**
Per foot, 2-1/4 lbs.
- **To Order**
*Order track to equal twice width of opening.



No. 19 "Hero" Vanishing Door Hanger

- **Use**
For residential vanishing doors up to 125 lbs. and not more than 5 feet wide.
- **Construction**
Wheels, vulcanized fibre, 2-1/8" diameter.
Bearings, steel balls.
- **Finish**
Cadmium plated.
- **Packed**
One pair in a box with screws and No. 19 floor guide.
- **Weight**
Per pair, 2-3/4 lbs.

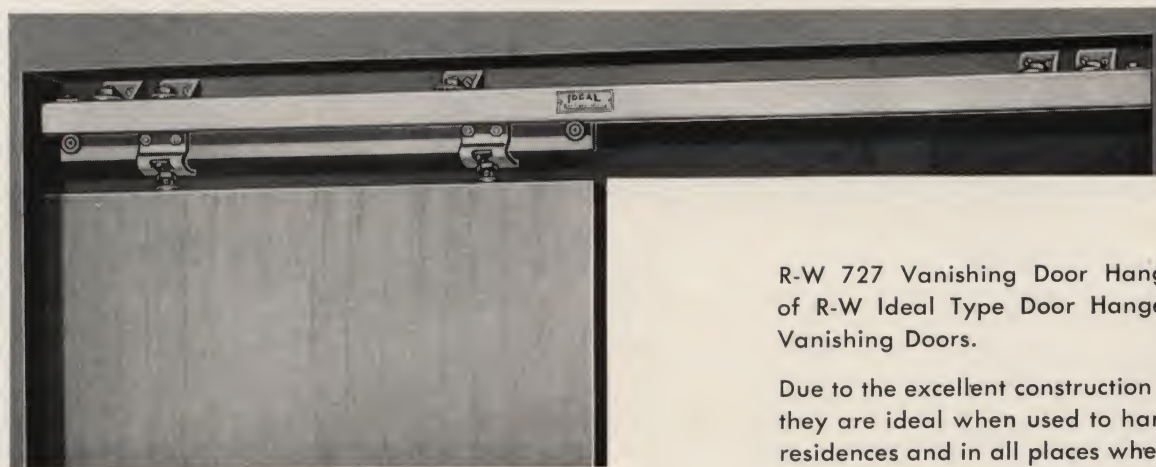


No. 19 Hanger

*For bi-parting doors, No. 19 center stop (page 8) is sold separately.

High Quality Vanishing Door Hangers

USING THE ROLLING BALL DESIGN . . . REDUCING
FRICTION TO A MINIMUM



No. 727 Ideal Door Hanger for Single Door
Openings or Double Door
Bi-Parting Openings.



No. 722 Hangers and Track



No. 827-1-V Hangers and Track



No. 828-1-V Hangers and Track

R-W 727 Vanishing Door Hanger is an adaptation of R-W Ideal Type Door Hanger to the hanging of Vanishing Doors.

Due to the excellent construction of this type of hanger they are ideal when used to hang Vanishing Doors in residences and in all places where a Vanishing sliding door can be used.

- **No. 722 HANGERS AND TRACK**

Door is carried on two rows of $\frac{1}{2}$ " diameter balls spread over a long area, so arranged that pure rolling action is attained, reducing friction to a minimum.

Length of track equals twice width of opening.

- **No. 827-1-V HANGERS AND TRACK**

Adaptation of Rich-Wil type door hangers providing deluxe equipment.

For single door openings or double door bi-parting openings of various widths.

Shipping weights vary accordingly.

- **No. 828-1-V HANGERS AND TRACK**

For wide openings lacking wall pocket space to hold doors.

Both doors (each on its own track) go into one pocket on one side of opening. Door nearest pocket travels at one-half the speed of the other door causing both to reach the end of travel at the same time.



No. 435 *Slidetite* Hangers

These hangers are furnished with Slidetite Nos. 435 and 1035 Garage Door Sets. (See pages 21 to 29.)

Nos. 435-1, 2, 3 Hangers are used with all in-opening doors and for out-opening sets where not more than two doors slide and fold in the same direction.

Nos. 435-21, 22, 23 Hangers are used with out-opening doors.

Frame: Nos. 435-1, 21 of pressed steel; others of drop forged steel.

Pendant: Of turned screw steel; ball bearing.

Adjustment Lock: Same as No. 2435 hanger shown below.

Finish: Trucks, cadmium plated; aprons, gray enamel.

No. 435-1 for 31 Track
No. 435-2 for 33 Track
No. 435-3 for 232 Track



No. 435-21 for 31 Track
No. 435-22 for 33 Track
No. 435-23 for 232 Track

Information Table

Hanger No.	For Track No.	Length of Carriage	Wheels Material	Diameter Wheels	Diameter Pendant	Apron Stock	Length Apron	Weight, Each, Lbs.
435-1	31	4-3/4"	Pressed Steel	2-1/8"	5/8"	5/16" x 2"	7-5/16"	3-1/2
435-2	33	6-7/8"	Drop Forged	3"	5/8"	3/8" x 2-1/2"	7-5/8"	8
435-3	232	6-7/8"	Drop Forged	3"	5/8"	3/8" x 2-1/2"	7-5/8"	7-1/2
435-21	31	4-3/4"	Pressed Steel	2-1/8"	5/8"	5/16" x 2"	7-5/16"	3-1/2
435-22	33	6-7/8"	Drop Forged	3"	5/8"	3/8" x 2-1/2"	7-5/8"	8
435-23	232	6-7/8"	Drop Forged	3"	5/8"	3/8" x 2-1/2"	7-5/8"	7-1/2



No. 2435—Slidetite Hangers—No. 2434 for Power Operated Doors

With Steel Aprons

With Malleable Aprons

No. 2435-1 for No. 31 Track
No. 2435-2 for No. 33 Track
No. 2435-3 for No. 232 Track

No. 2434-5 for No. 375 Track
No. 2434-6 for No. 233 Track
No. 2434-7 for No. 533 Track

A fifth wheel in a horizontal position fitted with ball bearings takes care of any side thrust that may occur where the doors are power operated.



Information Table

Hanger No.	For Track No.	Length of Carriage	Diameter Pendant	Apron Stock	Length Apron	Weight, Each, Lbs.
2435-1	31	4-15/16"	5/8"	5/16" x 2"	7-5/16"	3-1/2
2435-2	33	7-3/8"	3/4"	3/8" x 2-1/2"	7-5/8"	9
2435-3	232	6-3/4"	5/8"	3/8" x 2-1/2"	7-5/8"	7-1/4
2434-5	375	7-1/2"	3/4"	1/2" x 4"	8"	10-1/2
2434-6	233	8-3/8"	3/4"	1/2" x 4"	8"	12
2434-7	533	9-13/16"	7/8"	1/2" x 4"	8"	15-1/2

Nos. 435 and 1035 Hanger and Bracket Sets for No. 31 Track

These sets are for our dealers who carry in stock all hardware necessary for No. 435 x 31 or No. 1035 x 31 Garage Door Sets, with the exception of hangers and brackets. Each set consists of one hanger, one center, one intermediate, and one end bracket with proper screws and bolts. Suitable for three door or one track four door installation. Weight, No. 435 x 31 set, 13 lbs.; No. 1035 x 31 set, 14 lbs.



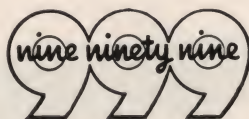
GARAGE DOOR HARDWARE

SlidaSide

Right angle garage door hardware for single door to six-door openings

Slidetite

Sliding folding garage door hardware for two to ten-door openings



Overhead garage door hardware

SlidaSide

No. 235

Right Angle Garage Door Hardware



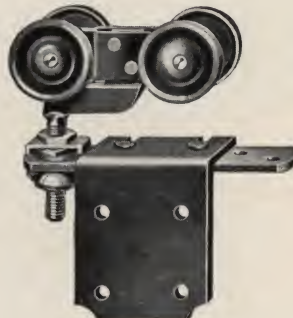
Four-Wheel Hanger
*No. 235-5 for No. 31 Track
*No. 235-9 for No. 232 Track
*No. 235-6 for No. 33 Track



Two-Wheel Hanger
No. 235-3 for No. 31 Track
No. 235-8 for No. 232 Track
No. 235-4 for No. 33 Track



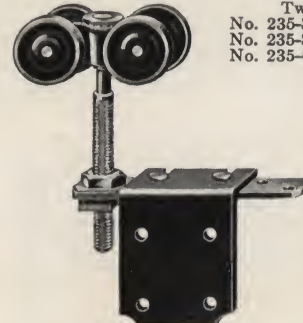
Four-Wheel Hanger
Short Pendant
No. 235-1 for No. 31 Track
No. 235-7 for No. 232 Track
No. 235-2 for No. 33 Track



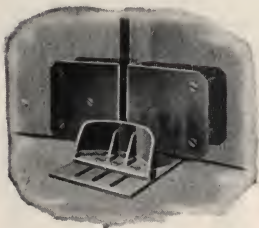
Four-Wheel Hanger
No. 235-23 for No. 31 Track
No. 235-28 for No. 232 Track
No. 235-24 for No. 33 Track



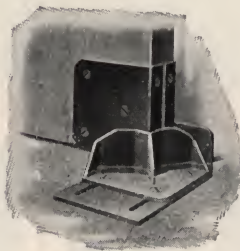
Stay Roller
No. 55



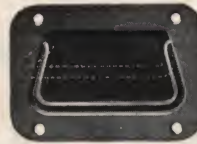
Four-Wheel Hanger
Long Pendant
No. 235-11 for No. 31 Track
No. 235-17 for No. 232 Track
No. 235-12 for No. 33 Track



Center Floor Guide No. 271
and Bumper Shoes No. 435-72



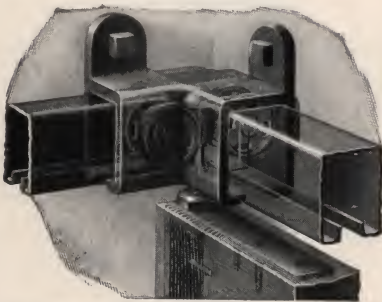
Floor End Stop No. 272 and
Bumper Shoes No. 435-72



Flush Drop
Handle No. 170



No. 635 Corner Guide Roller



Corner Bracket
No. 235x 31-C
No. 235x232-C
No. 235x 33-C



Slot Bracket
No. 235x 31-S
No. 235x232-S
No. 235x 33-S



Surface Hinge
No. 635



Center Bracket
No. 242-A



Curved Track
Nos. 30 1/2, 31, 232 and 33



Center Stop
Bracket
No. 12x31
No. 12x232
No. 12x33



Center
Bracket
No. 1x31
No. 1x232
No. 1x33



Straight Track
Nos. 30 1/2, 31, 232 and 33



Door Holder
No. 119



End Bracket
No. 2x31
No. 2x232
No. 2x33



Bow Handle
No. 81

Note—*Knuckle Joint Hangers to run in curved track.



SlidaSide

No. 235

Right Angle Garage Door Hardware

Interior view of garage doorway equipped with No. 235 "BB" Hardware

Hanger Dimensions

Hanger No.	For Track No.	Diameter Wheels, Inches	Bearings in Hanger	Pendant	Top of Door to Bottom of Front Track		Clearance Required Above Bottom of Front Track	
					Minimum Inches	Maximum Inches	Side Wall Bracket, Inches	Ceiling Bracket, Inches
235-1	31	2 1/4	Roller	Short	1 1/4	2	7	6
235-3	31	2 1/4	Ball	Short	1 1/4	2 1/2	7	6
*235-5	31	2 1/4	Ball	Short	1 1/4	2 1/2	4 1/2	3 1/2
235-11	31	2 1/4	Roller	Long	1 1/4	2 1/2	7	6
235-23	31	2 1/4	Roller	Short	1 1/2	2 1/2	7	6
235-7	232	3	Roller	Short	1 1/2	2 1/2	9 1/2	7 1/2
235-8	232	3	Ball	Short	1 1/2	2 1/2	9 1/2	7 1/2
*235-9	232	3	Ball	Short	1 1/2	3 1/4	5 1/2	4 1/2
235-17	232	3	Roller	Long	1 1/2	3 1/4	9 1/2	7 1/2
235-28	232	3	Roller	Short	1 1/2	3	9 1/2	7 1/2
235-2	33	3	Roller	Short	1 1/2	2 1/2	9 1/2	8 1/2
235-4	33	3	Ball	Short	1 1/2	2 1/2	9 1/2	8 1/2
*235-6	33	3	Ball	Short	1 1/2	3 1/4	6	4 1/2
235-12	33	3	Roller	Long	1 1/2	3	9 1/2	8 1/2
235-24	33	3	Roller	Short	1 1/2	3	9 1/2	8 1/2

*Knuckle Joint Hanger to run in Curved Track.

Detail of Hardware and Weight List of Parts

DESCRIPTION	Light Weight Hardware using No. 31 Track For Doors Weighing Up to 200 lbs. each		Medium Weight Hardware using No. 232 Track For Doors Weighing Between 200-350 lbs. each		Heavy Weight Hardware using No. 33 Track For Doors Weighing Between 350-600 lbs. each	
	Catalog Number	Shipping Wt., Lbs.	Catalog Number	Shipping Wt., Lbs.	Catalog Number	Shipping Wt., Lbs.
Hangers, each.....	235-1	3 3/4	235-7	7	235-2	7 1/2
Hangers, each.....	*235-3	2 3/4	235-8	5	235-4	6
Hangers, each.....	*235-5	3 3/4	*235-9	8	*235-6	9 1/2
Hangers, each.....	235-11	4	235-17	7	235-12	8
Hangers, each.....	235-23	4	235-28	7 1/2	235-24	8
Brackets, Corner, each.....	235x31-C	7 3/4	235x232-C	12 1/2	235x33-C	17
Brackets, End, each.....	235-2x31	1 3/4	235-2x232	3	235-2x33	4
Brackets, Center, each.....	235-1x31	1 3/4	235-1x232	3	235-1x33	4
Brackets, Center Stop, each.....	235-12x31	3	235-12x232	5 1/4	235-12x33	7 1/2
Center Brackets, each.....	242-A	1/2	242-A	1/2	242-A	1/2
Brackets, Slot, each.....	235x31-S	6	235x232-S	8	235x33-S	8 1/2
Trolley Track, Straight, per foot.....	31	1 3/4	232	2 1/4	33	4
Trolley Track, Curved, per foot.....	31	1 3/4	232	2 1/4	33	4
Hinges, Surface, per pair.....	635-4*	2	635-5*	2	635-5*	2
Flush Drop Handles, each.....	170	1/2	170	1/2	170	1/2
Bow Handles, each.....	81-1	1/2	81-2	1	81-2	1
Center Floor Guides, each.....	271	3	271	3 1/4	271	3
Floor End Stops, each.....	272	2 1/2	272	2 1/2	272	2 1/2
Bumper Shoes, each.....	435-72	1	435-72	1	435-72	1
Stay Rollers, each.....	55	1/2	55	1/2	55	1/2
Door Holder, each.....	119	1/2	119	1/2	119	1/2

*This is a ball-bearing hanger. Hangers not starred are roller-bearing.

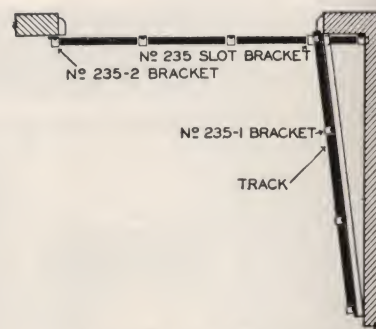


"AA"—Interior view. Door open.

SlidaSide No. 235 Right Angle Garage Door Hardware

"A" and "AA" Single Door Sets
"B" and "BB" Double Door Sets

For Opening Wall Space Between Jambs and Side
Walls, with Straight Track and No. 235 Slot Brackets

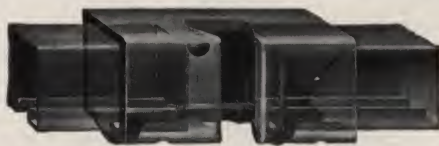


"AA"—Interior Elevation.

Headroom Required

Above Top of Door, not Opening

For No. 31 Track.....	9 inches
For No. 232 Track.....	11 $\frac{3}{4}$ inches
For No. 33 Track.....	11 $\frac{3}{4}$ inches



Slot Bracket
No. 235 x 31-S
No. 235 x 232-S
No. 235 x 33-S

Headroom may be decreased 1" on No. 31 Track Equipment or 1 $\frac{1}{4}$ " on Nos. 232 or 33 Track Equipments by using No. 7 style brackets for side track instead of No. 1 style brackets. A further reduction of $\frac{5}{8}$ " can be secured by sinking the hanger aprons into the top of the door.

Information Table

Sets include complete hardware for set desired together with all Wall Bolts and Screws necessary to erect, plus Locking Bolts as listed:	Light Wght. Hdwe. Using No. 31 Track. For doors weighing up to 200 lbs. each. 1 $\frac{3}{4}$ " to 2 $\frac{1}{4}$ " thick.		Med. Wght. Hdwe. Using No. 232 Track. For doors weighing between 200-350 lbs. 1 $\frac{3}{4}$ " to 2 $\frac{1}{4}$ " thick.		Heavy Wght. Hdwe. Using No. 33 Track. For doors weighing between 350-600 lbs. 1 $\frac{3}{4}$ " to 2 $\frac{1}{4}$ " thick.	
	Catalog No.		Catalog No.		Catalog No.	
	Single Door Sets	Double Door Sets	Single Door Sets	Double Door Sets	Single Door Sets	Double Door Sets
To Lock Doors From Inside Only, Including No. 524 Cane Bottom Bolts						
Opening up to 8' wide.....	235-AA-1831	235-BB-1831	235-AA-18232	235-BB-18232	235-AA-1833	235-BB-1833
Opening 8' 1" to 9' wide.....	235-AA-1931	235-BB-1931	235-AA-19232	235-BB-19232	235-AA-1933	235-BB-1933
Opening 9' 1" to 10' wide.....	235-AA-11031	235-BB-11031	235-AA-110232	235-BB-110232	235-AA-11033	235-BB-11033
Average shipping weight.....	75 lbs.	97 lbs.	112 lbs.	125 lbs.	138 lbs.	180 lbs.
To Lock Doors From Inside Only, Including No. 516 Door Bolts Minimum Lap of Door Over Jamb Is 2 Inches						
Opening up to 8' wide.....	235-AA-3831	235-BB-3831	235-AA-38232	235-BB-38232	235-AA-3833	235-BB-3833
Opening 8' 1" to 9' wide.....	235-AA-3931	235-BB-3931	235-AA-39232	235-BB-39232	235-AA-3933	235-BB-3933
Opening 9' 1" to 10' wide.....	235-AA-31031	235-BB-31031	235-AA-310232	235-BB-310232	235-AA-31033	235-BB-31033
Average shipping weight.....	75 lbs.	98 lbs.	112 lbs.	124 lbs.	138 lbs.	179 lbs.
To Lock Doors From Outside on "AA" Sets, One No. 525 Door Lock and to Lock Doors From Inside or Outside on "BB" Sets, One No. 525 Door Lock and One No. 524 Cane Bottom Bolt. Minimum Lap of Door Over Jamb Is 1-1/2 Inches						
Opening up to 8' wide.....	235-AA-4831	235-BB-4831	235-AA-48232	235-BB-48232	235-AA-4833	235-BB-4833
Opening 8' 1" to 9' wide.....	235-AA-4931	235-BB-4931	235-AA-49232	235-BB-49232	235-AA-4933	235-BB-4933
Opening 9' 1" to 10' wide.....	235-AA-41031	235-BB-41031	235-AA-410232	235-BB-410232	235-AA-41033	235-BB-41033
Average shipping weight.....	76 lbs.	98 lbs.	112 lbs.	124 lbs.	138 lbs.	180 lbs.
To Lock Doors From Inside or Outside, Including One No. 516 Door Bolt and One No. 525 Door Lock. Minimum Lap Over Jamb Is 2 Inches						
Opening up to 8' wide.....	.....	235-BB-6831	.....	235-BB-68232	.....	235-BB-6833
Opening 8' 1" to 9' wide.....	.....	235-BB-6931	.....	235-BB-69232	.....	235-BB-6933
Opening 9' 1" to 10' wide.....	.....	235-BB-61031	.....	235-BB-610232	.....	235-BB-61033
Average shipping weight.....	.....	98 lbs.	.....	124 lbs.	.....	180 lbs.

Notes—Sets include Lag Screws for attaching track brackets. If attachment is to be made to brick or concrete, Expansion Shields should be ordered extra. Direction Sheet showing erecting details furnished with hardware. If Wicket Entrance Door is wanted, contact home office.

Directions for Ordering Complete Sets

STATE—Catalog Number. Width of opening, number and thickness of doors. Distance door laps on jamb Distance from jamb to side wall.

Always send sketch of floor plan with above dimensions inserted.

Example Order for Complete Sets

One set SlidaSide No. 235-AA-1831.
Opening 8' wide. Door 1-3/4" thick. Door laps on jamb 2". Jamb to side wall 24".

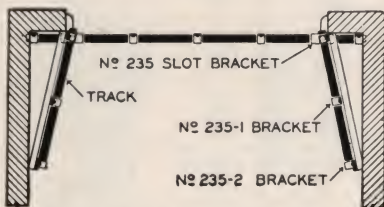
Single Door "A" and Double Door "B" Short Sets

For the convenience of dealers who carry our track, locks and locking bolts in stock, we are in a position to furnish "Short Sets" including all items of a complete set except track, locks and locking bolts. Packed in one box complete for opening 10 feet wide.

Weight Table—Short Sets

Description	Single Doors		Double Doors	
	Catalog No.	Wght. Lbs.	Catalog No.	Wght. Lbs.
For No. 31 Track	S-235-A-31	32	S-235-B-31	58
For No. 232 Track	S-235-A-232	53	S-235-B-232	90
For No. 33 Track	S-235-A-33	72	S-235-B-33	107

Example Order—1 Set SlidaSide S-235-A-31.



BB—Interior elevation showing proper location and names of 235 Parts for BB-3 Sets, including two 516 Door Bolts.



Interior of garage doorway having double doors equipped with BB hardware. One car garage.

SlidaSide

No. 235 Right Angle Garage Door Hardware

"C" and "CC" Single Door Sets and
"D" and "DD" Double Door Sets

For Opening Adjacent to Side Walls with Straight Track
and No. 235 Patented Corner Brackets

"E" and "EE" Single Door Sets and
"F" and "FF" Double Door Sets

With Curved Corner Track. Minimum Distance
from Jamb to Side Wall, 26 Inches

With Curved Corner Track

Sets "G" and "GG"

(Two Doors Hinged Together)

Sets "H" and "HH"

(Two Pairs of Doors Hinged Together,
Bi-Parting)
Minimum Distance, Jamb to Side Wall,
26 Inches



"CC" Hardware



"DD" Hardware



"EE" Equipment



"FF" Equipment

Information Table

Sets include complete hardware for set desired together with all
Wall Bolts and Screws necessary to erect, plus Locking Bolts
as listed:

Light Wght. Hdwe. Using No.
31 Track. For doors weighing
up to 200 lbs. each. 1 1/4" to
2 1/4" thick.

Catalog No.

Single Door
Sets

Double Door
Sets

Med. Wght. Hdwe. Using No.
232 Track. For doors weighing
between 200-350 lbs. 1 1/4" to
2 1/4" thick.

Catalog No.

Single Door
Sets

Double Door
Sets

Heavy Wght. Hdwe. Using No.
33 Track. For doors weighing
between 350-600 lbs. 1 1/4" to
2 1/4" thick.

Catalog No.

Single Door
Sets

Double Door
Sets

To Lock Doors From Inside Only, Including No. 524 Cane Bottom Bolts

Opening up to 8' wide.....	235-CC-1831	235-DD-1831	235-CC-18232	235-DD-18232	235-CC-1833	235-DD-1833
Opening 8' 1" to 9' wide.....	235-CC-1931	235-DD-1931	235-CC-19232	235-DD-19232	235-CC-1933	235-DD-1933
Opening 9' 1" to 10' wide.....	235-CC-11031	235-DD-11031	235-CC-110232	235-DD-110232	235-CC-11033	235-DD-11033
Average shipping weight.....	73 lbs.	78 lbs.	112 lbs.	141 lbs.	138 lbs.	157 lbs.
Opening up to 8' wide.....	235-EE-1831	235-FF-1831	235-EE-18232	235-FF-18232	235-EE-1833	235-FF-1833
Opening 8' 1" to 9' wide.....	235-EE-1931	235-FF-1931	235-EE-19232	235-FF-19232	235-EE-1933	235-FF-1933
Opening 9' 1" to 10' wide.....	235-EE-11031	235-FF-11031	235-EE-110232	235-FF-110232	235-EE-11033	235-FF-11033
Average shipping weight.....	70 lbs.	91 lbs.	118 lbs.	153 lbs.	136 lbs.	174 lbs.
Opening up to 8' wide.....	235-GG-1831	235-HH-1831	235-GG-18232	235-HH-18232	235-GG-1833	235-HH-1833
Opening 8' 1" to 9' wide.....	235-GG-1931	.....	235-GG-19232	.....	235-GG-1933	.....
Opening 9' 1" to 10' wide.....	235-GG-11031	.....	235-GG-110232	.....	235-GG-11033	.....
Opening 8' 1" to 10' wide.....	.....	235-HH-11031	.....	235-HH-110232	.....	235-HH-11033
Opening 10' 1" to 12' wide.....	.....	235-HH-11231	.....	235-HH-112232	.....	235-HH-11233
Opening 12' 1" to 14' wide.....	.....	235-HH-11431	.....	235-HH-114232	.....	235-HH-11433
Opening 14' 1" to 16' wide.....	.....	235-HH-11631	.....	235-HH-116232	.....	235-HH-11633
Average shipping weight.....	79 lbs.	117 lbs.	134 lbs.	194 lbs.	153 lbs.	215 lbs.

Directions for Ordering Complete Sets

STATE—Catalog number. Width of
opening, number and thickness of doors.
Distance door laps on jamb. Distance from
jamb to side wall.

Always send sketch of floor plan with
above dimensions inserted.

Example Order for Complete Sets

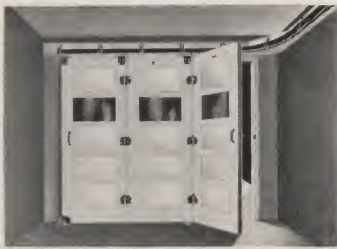
One set SlidaSide Nos. 235-FF-1831
Opening 8' wide. Doors 1-3/4" thick.
Distance between jamb and side wall, 30"
on right side; 28" on left side. Door laps 2"
on jamb.



"GG" Sets



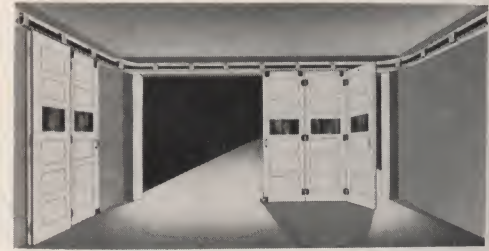
"HH" Sets



3-Door "J" and "JJ" Sets

For three doors hinged together. The door nearest the side of the building toward which the doors slide in opening, is used as an entrance door. The doors may be mounted to slide to the left as shown in the illustration, or to slide to the right. The hardware is reversible and can be used in any opening regardless of the distance from the jamb to the side wall, but only sufficient straight track is included in the price of the complete set for a distance from jamb to side wall not exceeding two feet. The radius of the curved track is 24 inches.

SlidaSide No. 235 Right Angle Garage Door Hardware "J" and "JJ" Three-Door Sets "K" and "KK" Six-Door Sets



6-Door "K" and "KK" Sets

Six Doors, Three of which are Hinged Together and Slide to the Right, and Three of which are Hinged Together and Slide to the Left.

The end doors nearest the side of the building toward which the doors slide in opening, are used as entrance doors. The hardware can be used in any opening regardless of the distance from the jamb to the side wall, but only sufficient straight track is included in the price of the complete set for a distance from jamb to side wall not exceeding two feet. The radius of the curved track is 24 inches.

Headroom required above Top of Door, not Opening.

For No. 31 Track 6 3/4 inches
For No. 232 Track 7 1/2 inches
For No. 33 Track 8 1/4 inches

Headroom may be decreased 1/4" on Nos. 31 and 232 Track Equipment and 1/2" on No. 33 Track Equipment, by using No. 7 style ceiling track brackets. A further reduction of 1/4" in headroom may be secured by sinking the hanger aprons into the top of the door.

Information Table

Sets include complete hardware for sets desired together with all Wall Bolts and Screws necessary to erect, plus Locking Bolts as listed:

Light Wght. Hdwe. Using No. 31 Track. For 3-Door Units weighing up to 200 lbs. each. 1 1/4" to 2 1/4" thick.	Med. Wght. Hdwe. Using No. 232 Track. For 3-Door Units weighing between 200-350 lbs. each. 1 1/4" to 2 1/4" thick.	Heavy Wght. Hdwe. Using No. 33 Track. For 3-Door Units weighing between 350-600 lbs. each. 1 1/4" to 2 1/4" thick.
Catalog No.	Catalog No.	Catalog No.
Three-Door Sets	Six-Door Sets	Three-Door Sets

To Lock Doors From Outside Only, Including One No. 835 Locking Bolt

Opening up to 8' wide.....	235-JJ-1831	235-JJ-18232	235-JJ-1833
Opening 8' 1" to 9' wide.....	235-JJ-1931	235-JJ-19232	235-JJ-1933
Opening 9' 1" to 10' wide.....	235-JJ-11031	235-JJ-110232	235-JJ-11033
Average shipping weight.....	64 lbs.	101 lbs.	131 lbs.

To Lock Doors From Outside Only, Including One No. 525 Door Lock. Minimum Lap of Door Over Jamb Is 1-1/2 Inches

Opening up to 8' wide.....	235-JJ-2831	235-JJ-28232	235-JJ-2833
Opening 8' 1" to 9' wide.....	235-JJ-2931	235-JJ-29232	235-JJ-2933
Opening 9' 1" to 10' wide.....	235-JJ-21031	235-JJ-210232	235-JJ-21033
Average shipping weight.....	66 lbs.	103 lbs.	133 lbs.

To Lock Doors From Outside Only, Including Two No. 835 Locking Bolts

Opening up to 16' wide.....	235-KK-11631	235-KK-116232	235-KK-11633
Opening 16' 1" to 18' wide.....	235-KK-11831	235-KK-118232	235-KK-11833
Opening 18' 1" to 20' wide.....	235-KK-12031	235-KK-120232	235-KK-12033
Average shipping weight.....	128 lbs.	202 lbs.	262 lbs.

To Lock Doors From Outside Only, Including Two No. 525 Door Locks. Minimum Lap of Door Over Jamb Is 1-1/2 Inches

Opening up to 16' wide.....	235-KK-21631	235-KK-216232	235-KK-21633
Opening 16' 1" to 18' wide.....	235-KK-21831	235-KK-218232	235-KK-21833
Opening 18' 1" to 20' wide.....	235-KK-22031	235-KK-220232	235-KK-22033
Average shipping weight.....	132 lbs.	206 lbs.	266 lbs.

With One No. 516 Door Bolt to Bolt 3 Doors From Inside and One No. 835 Door Bolt to Bolt Doors from Outside.

Minimum Lap of Door Over Jamb Is 2 Inches

Opening up to 16' wide.....	235-KK-31631	235-KK-316232	235-KK-31633
Opening 16' 1" to 18' wide.....	235-KK-31831	235-KK-318232	235-KK-31833
Opening 18' 1" to 20' wide.....	235-KK-32031	235-KK-320232	235-KK-32033
Average shipping weight.....	128 lbs.	202 lbs.	262 lbs.

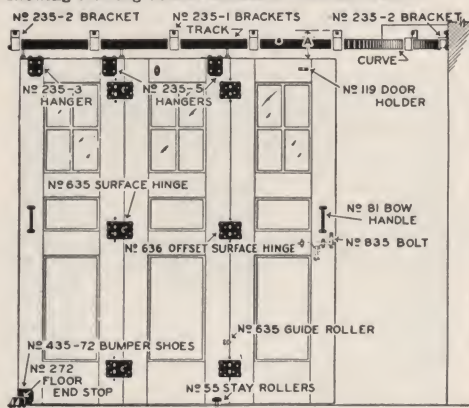
With One No. 516 Door Bolt to Bolt 3 Doors From Inside and One No. 525 Door Lock to Lock 3 Doors From Outside.

Minimum Lap of Door Over Jamb Is 2 Inches

Opening up to 16' wide.....	235-KK-41631	235-KK-416232	235-KK-41633
Opening 16' 1" to 18' wide.....	235-KK-41831	235-KK-418232	235-KK-41833
Opening 18' 1" to 20' wide.....	235-KK-42031	235-KK-420232	235-KK-42033
Average shipping weight.....	132 lbs.	206 lbs.	266 lbs.

When "JJ" or "KK" Sets are wanted with Short Lengths of track packed in one box with the rest of the Hardware plus one Lock Joint Bracket, for each Track Joint, prefix the letter "T" to above catalog numbers (T-235-JJ).

Note—Sets include Lag Screws for attaching track brackets. If attachment is to be made to brick or concrete, Expansion Shields should be ordered extra. Direction Sheet showing erecting details furnished with hardware.



Interior elevation showing proper location and names of 235 Parts for Set 235-JJ-1931, including one 835 Door Bolt.

Directions for Ordering Complete Sets

STATE—Catalog number, Width of opening, number and thickness of doors. Distance door laps on jamb. Distance from jamb to side wall.

Always send sketch of floor plan with above dimensions inserted.

Example Order for Complete Sets One Set SlidaSide No. 235-JJ-1831

Opening 8' wide. Doors 1-3/4" thick. Distance between the jamb and side wall toward which doors slide in opening is 16".

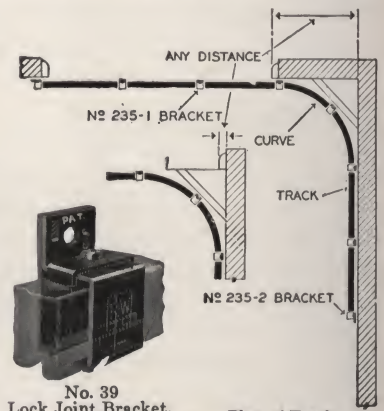
Short Sets

Three-Door Sets "J" and Six-Door Sets "K"
"J" (Three Doors hinged together) and "K" (Six Doors, two 3-Door Units Hinged Together)

For the convenience of dealers who carry our track, locks and locking bolts in stock, we are in a position to furnish "Short Sets" including all items of a complete set except track, locks and locking bolts. Packed in one box complete for opening 10' wide for THREE door sets and opening 20' wide for SIX door sets.

Weight Table—Short Sets

Description	Three-Door		Six-Door	
	Catalog No.	Wt., Lbs.	Catalog No.	Wt., Lbs.
For No. 31 Track	S235-J-31	44	S235-K-31	88
For No. 232 Track	S235-J-232	73	S235-K-232	146
For No. 33 Track	S235-J-33	84	S235-K-33	168



No. 39 Lock Joint Bracket.

Plan of Track

Large plan shows a front wall extending from the side wall to the doorway, small plan shows doorway adjacent to side wall.

Bolt Spacings for Brackets For *SlidaSide* Sets

Patented

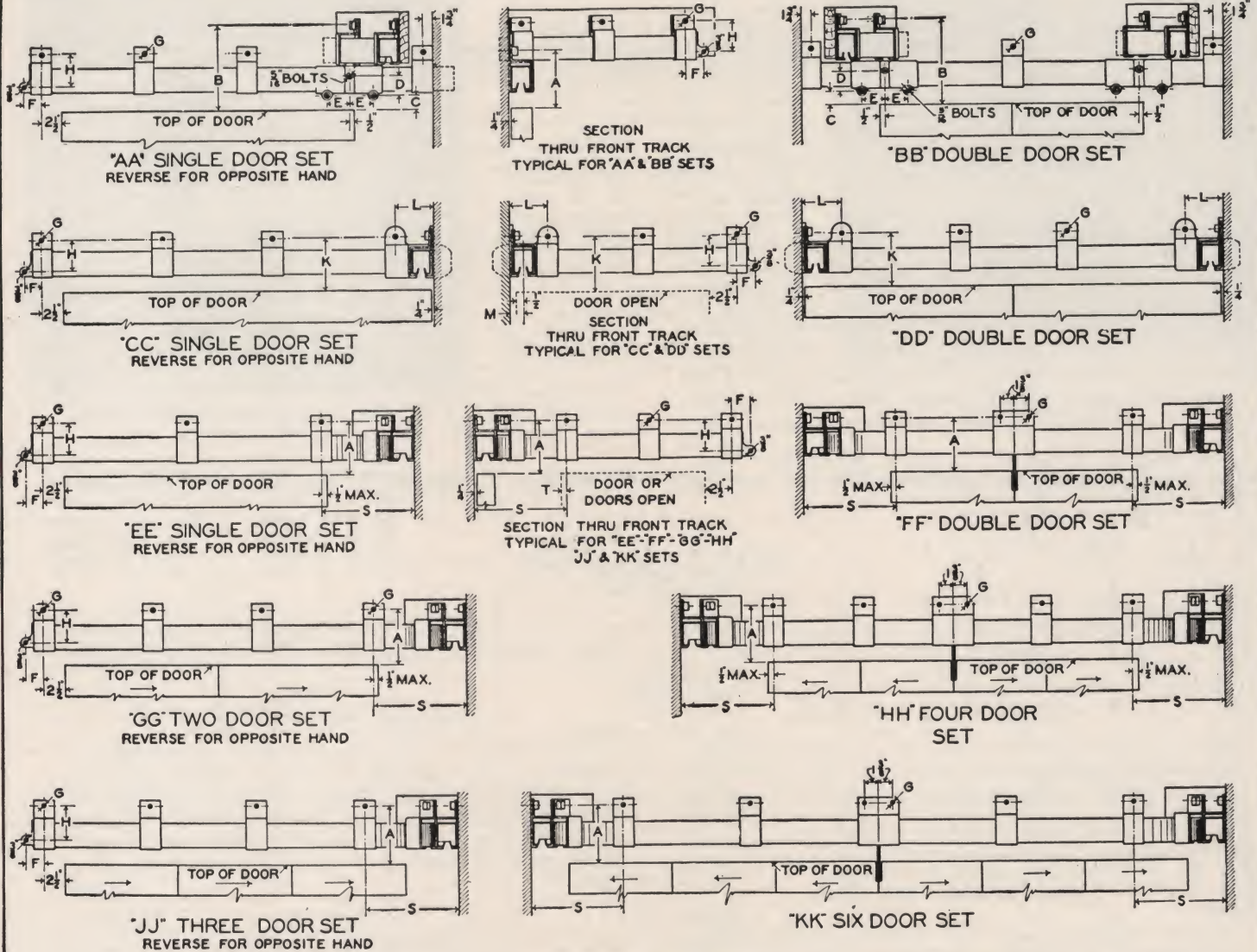
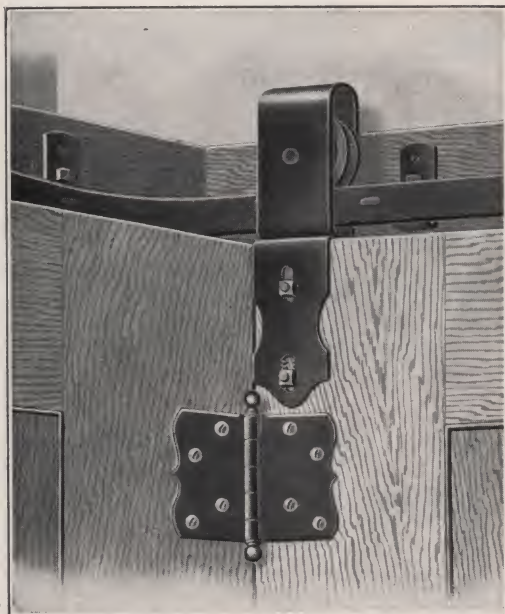


TABLE														
SIZE OF TRACK	A	B	C	D	E	F	G SIZE BOLT	H	K	L	M	S	T FOR EE- GG-JJ SETS	T FOR FF- HH-JJ SETS
31 & 35	5 1/4"	8 5/8"	1 1/4"	2 1/2"	2 1/4"	1 3/4"	1 1/2"	2 3/16"	5 3/8"	3 3/4"	1 1/8"	25 1/8"	1 1/2"	1"
232	6 15/16"	11 1/16"	1 1/8"	3 5/8"	2 7/16"	2 5/8"	5/8"	2 7/8"	6 11/16"	3 3/4"	1 7/16"	25 1/2"	1 1/2"	1 3/8"
33	7 1/4"	11 1/2"	1 3/4"	3 1/2"	2 9/16"	2 5/8"	3/4"	3 3/16"	7"	4 5/8"	1 5/8"	25 3/8"	1 1/2"	1 3/8"

NOTE:- WHEN WORKING IN MINIMUM HEADROOM
FOR NO. 31 & 35 TRACK A=4 1/2" - B=8" - C=5/8" - K=4 1/2"
232 A=6 5/8" - B=10 5/8" - C=1 1/8" - K=5 1/8"
33 A=6 1/2" - B=10 3/4" - C=1" - K=6 1/2"

This data shows bolt spacings for use of architects, engineers, and contractors, so that steel lintels may be punched in the shop, or so that bolts may be built into concrete or masonry lintels.

Nos. 735 and 1735 Flat Track Garage Door Hardware



No. 735 Hanger. This will be sent unless otherwise ordered.

For 3, 4, 5 and 6 Door Openings

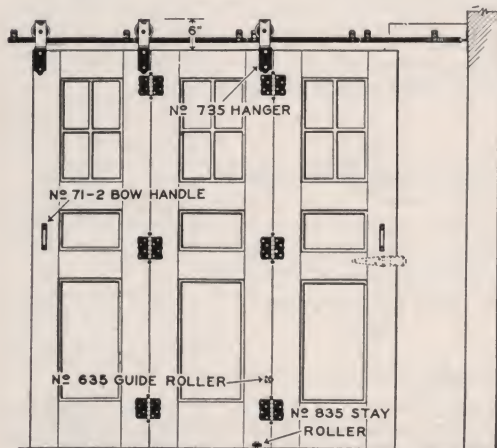
This hardware is intended for light doors from 1 3/4 inches to 2 1/4 inches thick, and not more than 40 inches wide, that run around the corner inside the garage and stand out of the way against the side wall when the doors are open. Provides for entrance door without additional doorway. High class surface hinges furnished with this set.

Hanger apron adjustable for doors 1 3/4 inches to 2 1/4 inches in thickness. Roller Bearing Swivel hanger used with No. 50 track. Hanger cannot jump the track. No. 735 hanger aprons 2 1/4"x6"; No. 1044 hanger aprons, 3 1/2"x6". Finish: Trucks, cadmium plated; aprons, gray enamel.

Headroom required between top of door and top of No. 735 Hanger is 5 3/4 inches. No. 1044 Hanger requires 6 to 7 1/4 inches.



No. 1044 Hanger. Only furnished when specially specified.



Elevation showing proper application of Set No. 735-8. No. 1735 Hardware is same as No. 735 sets, except the track is in short pieces and is packed in the box.

List and Amount of Hardware Required for 3 Door Sets

Material	No. 735-8 Sets For 8' Openings (Track Bundled)	No. 735-10 Sets For 10' Openings (Track Bundled)
*No. 735 Hangers	3	3
No. 50 Track	2 pieces 4' long 1 piece 8' long	2 pieces 5' long 1 piece 10' long
No. 435—2 1/2" x 4" Surface Hinges	3 pair	3 pair
No. 835 Stay Rollers	2	2
No. 71-1 Bow Handles	2	2
No. 735-6" Hinged Hasp	1	1
No. 635 Guide Roller	1	1
Pkg. Bolts and Screws	1	1
Weight per Set	34 1/2 lbs.	36 1/2 lbs.

***Note**—If a hanger with vertical and lateral adjustments is desired specify No. 1044 hanger.

No. 1735 Garage Door Hardware

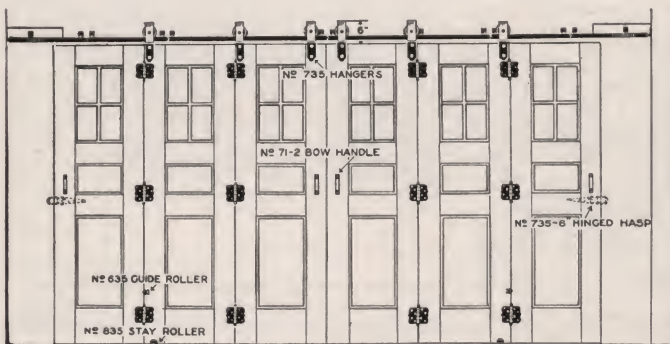
Note—It will be noticed that the 1735 sets are the same as the 735 sets except that the track in the 1735 sets comes in shorter lengths, including one curved piece, and is packed with special Joint Brackets in the box with the other hardware.

No. 735 Short Sets

Packed 3 hangers with carriage bolts in a box. Weight 8 1/2 lbs. per set.

How to Equip 4, 5 and 6 Door Openings

4-Door Sets	Use one 3-door set, plus 1 1/2 pair of Butts.
5-Door Sets	Use two 3-door sets.
6-Door Sets	Use two 3-door sets.



For six door openings, use two sets of 735 or 1735 hardware. Three doors slide to each side wall.

Slidetite

Garage Door Hardware

The sliding-folding method of opening and closing a series of doors in one opening has long been conceded by authorities as being the most desirable of all methods.

The actual designing and producing of hardware that would stand the gaff, yet permit even large, wide and heavy doors to be operated according to this sliding-folding principle has however been an entirely different matter.

To produce hardware that would be: strong enough to last for years; attractive in appearance; easy to install; of moderate price; yet, handling the doors in an invariable easy, quick and weathertight manner; this has been the aim of engineers and manufacturing concerns for years.

So thoroughly did our engineers and production

experts go into this subject that they at last produced and perfected several groups of equipment which met the varying and stern requirements in every particular.

Slidetite Defined

Slidetite equipment consists of sets of hardware for a series of doors, from 2 to 10 in one opening, so hinged together and suspended at regular intervals by means of hangers running in overhead trolley track that the doors open or close with a sliding-folding movement in such a manner that at all times they occupy a minimum amount of space.

This equipment proved to be so dependable that the word Slidetite was coined by us and applied to it.

Slidetite

There are several groups of Slidetite; each group designed especially for some certain situation—and

there performing its duty in a more satisfactory way than any other equipment could.

R-W No. 434 Slidetite

Equipment designed especially to operate heavy industrial doors. It has to withstand the severe service and strains which doors of great weight are subjected to. Railroad shop doors, round-house doors, large doors for warehouses and doors of a like character are handled quickly and easily by this equipment.

R-W No. 435 Slidetite

A popular equipment used on private and public garages where the individual doors weigh from 125 to 200 pounds each and where only ordinary use is made of the doors.

R-W No. 1035 Slidetite

Heavier than the No. 435 equipment and is used on private and public garages especially where the service is frequent and severe. Such parts as are subjected to unusual stress and strain are greatly strengthened.

R-W No. 1335 Slidetite

This type of Slidetite was made specially to take care of the rapid automatic opening of fire station doors. The fast getaway of the department trucks is provided for by a positive quick opening of the doors controlled by the driver as he takes his place in the driver's seat.

Electric Operator

Slidetite lends itself to the adaptation of Electric Control and R-W has perfected an Electric Operator that for long life, easy control, and perfect working leads all others.

See Aut-O-Dor Electric Operator Section in this catalog or send for special catalog.

For Correct "Hand" of R-W Doors See Page 2

Slidetite Garage Hardware Sets—2 to 6-Door Openings

*COMPLETE SETS—DOORS OPENING IN (Hinge Combination No. 1)

For Doors Weighing Lbs.	Using Track No.	Including Bolts No.	2 DOOR SETS FOR OPENINGS UP TO 8 FT. WIDE						3 DOOR SETS FOR OPENINGS UP TO 9 FT. WIDE					
			Standard Service			Heavy Service			Standard Service			Heavy Service		
			Catalog Number	Hdrm. Req'd	Wgt. Lbs.	Catalog Number	Hdrm. Req'd	Wgt. Lbs.	Catalog Number	Hdrm. Req'd	Wgt. Lbs.	Catalog Number	Hdrm. Req'd	Wgt. Lbs.
Up to 100 lbs.	31	514-524	435-A2-31	6"	49	1035-A2-31	6"	73	435-A3-31	6"	49	1035-A3-31	6"	94
		517	435-B2-31		56	1035-B2-31		80	435-B3-31		56	1035-B3-31		101
100 to 175	232	514-524	435-A2-232	8 1/4"	105	1035-A2-232	8 1/4"	107	435-A3-232	8 1/4"	120	1035-A3-232	8 1/4"	123
		517	435-B2-232		110	1035-B2-232		113	435-B3-232		126	1035-B3-232		130
175 to 250	33	514-524	435-A2-33	8 1/2"	125	1035-A2-33	8 1/2"	127	435-A3-33	8 1/2"	140	1035-A3-33	8 1/2"	143
		517	435-B2-33		131	1035-B2-33		134	435-B3-33		147	1035-B3-33		150

SHORT SETS (Track and Locking Bolts Omitted)

Up to 100 lbs.	31	NONE	SS435-2-31	6"	31	SS1035-2-31	6"	55	SS435-3-31	6"	31	SS1035-3-31	6"	55
100-175	232		SS435-2-232	8 1/4"	77	SS1035-2-232	8 1/4"	79	SS435-3-232	8 1/4"	72	SS1035-3-232	8 1/4"	79
175-250	33		SS435-2-33	8 1/2"	85	SS1035-2-33	8 1/2"	87	SS435-3-33	8 1/2"	85	SS1035-3-33	8 1/2"	87

*COMPLETE SETS—DOORS OPENING IN (Hinge Combination No. 1)

For Doors Weighing Lbs.	Using Track No.	Including Bolts No.	4 DOOR SETS—2 FOLDING EA. WAY FOR OPENING UP TO 12' WIDE						4 DOOR SETS—3 FOLDING ONE WAY FOR OPENING UP TO 12' WIDE					
			Standard Service			Heavy Service			Standard Service			Heavy Service		
			Catalog Number	Hdrm. Req'd	Wgt. Lbs.	Catalog Number	Hdrm. Req'd	Wgt. Lbs.	Catalog Number	Hdrm. Req'd	Wgt. Lbs.	Catalog Number	Hdrm. Req'd	Wgt. Lbs.
Up to 100 lbs.	31	514-524	435-A4 1/2-31	6"	84	1035-A4 1/2-31	6"	129	435-A4-31	8 1/4"	56	1035-A4-31	8 1/4"	101
		517	435-B4 1/2-31		97	1035-B4 1/2-31		142	435-B4-31		70	1035-B4-31		115
100 to 175	232	514-524	435-A4 1/2-232	8 1/4"	130	1035-A4 1/2-232	8 1/4"	171	435-A4-232	11 1/4"	90	1035-A4-232	11 1/4"	130
		517	435-B4 1/2-232		144	1035-B4 1/2-232		184	435-B4-232		104	1035-B4-232		144
175 to 250	33	514-524	435-A4 1/2-33	8 1/2"	156	1035-A4 1/2-33	8 1/2"	198	435-A4-33	11 1/2"	109	1035-A4-33	11 1/2"	149
		517	435-B4 1/2-33		170	1035-B4 1/2-33		210	435-B4-33		123	1035-B4-33		163

SHORT SETS (Track and Locking Bolts Omitted)

Up to 100 lbs.	31	NONE	SS435-4 1/2-31	6"	54	SS1035-4 1/2-31	6"	99	SS435-4-31	8 1/4"	37	SS1035-4-31	8 1/4"	82
100-175	232		SS435-4 1/2-232	8 1/4"	80	SS1035-4 1/2-232	8 1/4"	125	SS435-4-232	11 1/4"	63	SS1035-4-232	11 1/4"	103
175-250	33		SS435-4 1/2-33	8 1/2"	95	SS1035-4 1/2-33	8 1/2"	134	SS435-4-33	11 1/2"	80	SS1035-4-33	11 1/2"	119

*COMPLETE SETS—DOORS OPENING IN (Hinge Combination No. 1)

For Doors Weighing Lbs.	Using Track No.	Including Bolts No.	5 DOOR SETS FOR OPENINGS UP TO 15 FT. WIDE						6 DOOR SETS FOR OPENINGS UP TO 18 FT. WIDE					
			Standard Service			Heavy Service			Standard Service			Heavy Service		
			Catalog Number	Hdrm. Req'd	Wgt. Lbs.	Catalog Number	Hdrm. Req'd	Wgt. Lbs.	Catalog Number	Hdrm. Req'd	Wgt. Lbs.	Catalog Number	Hdrm. Req'd	Wgt. Lbs.
Up to 100 lbs.	31	514-524	435-A5-31	8 1/4"	90	1035-A5-31	8 1/4"	135	435-A6-31	8 1/4"	95	1035-A6-31	8 1/4"	140
		517	435-B5-31		103	1035-B5-31		148	435-B6-31		113	1035-B6-31		161
100 to 175	232	514-524	435-A5-232	11 1/4"	140	1035-A5-232	11 1/4"	180	435-A6-232	11 1/4"	145	1035-A6-232	11 1/4"	180
		517	435-B5-232		150	1035-B5-232		192	435-B6-232		165	1035-B6-232		208
175 to 250	33	514-524	435-A5-33	11 1/2"	168	1035-A5-33	11 1/2"	208	435-A6-33	11 1/2"	172	1035-A6-33	11 1/2"	217
		517	435-B5-33		186	1035-B5-33		226	435-B6-33		193	1035-B6-33		238

SHORT SETS (Track and Locking Bolts Omitted)

Up to 100 lbs.	31	NONE	SS435-5-31	8 1/4"	60	SS1035-5-31	8 1/4"	105	SS435-6-31	8 1/4"	61	SS1035-6-31	8 1/4"	106
100-175	232		SS435-5-232	11 1/4"	95	SS1035-5-232	11 1/4"	136	SS435-6-232	11 1/4"	96	SS1035-6-232	11 1/4"	138
175-250	33		SS435-5-33	11 1/2"	100	SS1035-5-33	11 1/2"	144	SS435-6-33	11 1/2"	103	SS1035-6-33	11 1/2"	147

Locking Bolt Combinations

When the letter A is used in any of the catalog numbers as shown it means that No. 514 Spring Top Locking Bolts and No. 524 Cane Bottom Locking Bolts are furnished with the set of hardware.

When the letter B is used it means that No. 517 Cremona Locking Bolts (adjustable for doors up to 9 feet high) are furnished with each set of hardware. If doors are over 9 feet high order extra 18-inch sections of the bolt.

*Hinge Combinations

3 sets of hinges furnished regular. If extra hinges are required, additional charges will be made.

No. 1—Regular Surface and Jamb Hinges are furnished. This set always furnished unless otherwise ordered.

No. 2—Same as No. 1 except that No. DB-1040 Disk Bearing Hinges are used instead of the Regular Surface Hinges. No. 1040 Hinges can not be used on out-opening sets.

No. 3—Ball-bearing hinges No. BB-1035 at jambs and No. BB-1040 between doors on in-opening sets; but ball-bearing hinges No. BB-1035 at jambs only on out-opening sets. (No. 1040 hinges can not be used on out-opening sets).

Electric Operator

If Electric Operator is to be used, so specify and if so No. 2435 Hanger (page 12) will be required. This Hanger has a horizontal wheel to take the side thrust. No locking bolts are required when doors are controlled by R-W Aut-O-Dor Electric Operator.

Special Notice

THESE COMPLETE SETS CONTAIN all equipment, bolts, screws, etc., necessary to erect.

SETS INCLUDE LAG SCREWS for attaching track brackets. If attachment is to be made to brick or concrete, Expansion Shields should be ordered extra.

LOCATION OF BOLT HOLES AND BRACKET SPACING shown on pages 28-29.

IF DOORS ARE HEAVIER THAN ABOVE use No. 434 Hardware.

Best results are obtained by using doors not more than 3 feet wide. Wider doors require additional track and brackets. Doors must be of equal width.

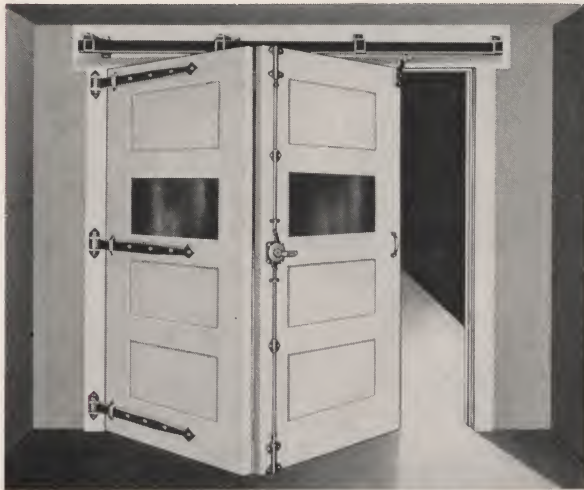
Directions for Ordering Complete Sets

STATE—Number of sets desired, catalog number, and hinge combination number, width and height of opening and thickness of door. Be sure to prefix the letter "O" if Out Opening—see below.

EXAMPLE—1 set No. 1035-A5-31 Hinge Combination No. 1 for opening 15' wide, 8' high, doors 1 1/4" thick.

PREFIXES TO THE CATALOG NUMBER: "O" FOR OUT-OPENING SETS; "SS" FOR SHORT SETS, MUST OF COURSE BE ADDED WHEN SUCH SETS ARE ORDERED.

Slidetite Garage Hardware Sets—2 to 6-Door Openings



Heavy Service Set No. 1035-B2

All "A" Sets
include
No. 514-524 Bolts

All "B" Sets
include
No. 517 Cremone Bolts

Out-Opening Sets
are specified by
prefixing the letter
"O"
to the Regular
Set Number



Standard Service Set No. 435-B3



Standard Service Set No. 435-B4-1/2

No. of Track
Size (31),
(232) or (33)
is part of
specification



Heavy Service Set No. 1035-B4



Heavy Service Set No. 435-A5



Standard Service Set No. 435-A6

No. 435 Standard Service is a popular priced equipment used on private and public garages where only ordinary use is made of the doors.

No. 1035 Heavy Service type is similar to the above, but has heavier hinges and will withstand the hard usage and abuse given public garage doors and other frequently used Door-Ways.

For doors weighing more than 250 lbs. each, see R-W No. 434 SLIDE-TITE.

Best results are obtained by using doors not more than 3' wide (4' on 2 door set). Doors must be of equal width. See sets illustrated on succeeding

pages for other combinations.

Complete Sets: Include the following hardware: Hangers, Track and Brackets, Jamb Hinges, Surface Hinges, Bow Handles, Locking Bolts, Bumper Shoes, Floor Guides, Floor Angles, Tie Rods. A substantial Latch and a pair of padlock plates are supplied with all sets using a passage door, namely three door, four door one track, five door, six door, seven door, eight door three track, nine door and ten door sets.

Sets also include all screws for attaching to lintel and jambs and all screws and bolts for attaching hardware to doors.

Slidetite Garage Hardware Sets—7 to 10-Door Openings

*COMPLETE SETS—DOORS OPENING IN—(Hinge Combination No. 1)

For Doors Weighing Lbs.	Using Track No.	Including Bolts No.	7 DOOR SETS FOR OPENINGS UP TO 21 FT. WIDE						8 DOOR SETS, 4 FOLDING EACH WAY FOR OPENINGS UP TO 24 FT. WIDE					
			Standard Service			Heavy Service			Standard Service			Heavy Service		
			Catalog Number	Hdrm. Req'd	Wt., Lbs.	Catalog Number	Hdrm. Req'd	Wt., Lbs.	Catalog Number	Hdrm. Req'd	Wt., Lbs.	Catalog Number	Hdrm. Req'd	Wt., Lbs.
Up to 100 lbs.	31	514-524	435-A7-31	9"	170	1035-A7-31	9"	215	435-A8½-31	9"	234	1035-A8½-31	9"	279
		517	435-B7-31		191	1035-B7-31		235	435-B8½-31		262	1035-B8½-31		305
100 to 175	232	514-524	435-A7-232	11"	240	1035-A7-232	11"	282	435-A8½-232	11"	285	1035-A8½-232	11"	330
		517	435-B7-232		262	1035-B7-232		302	435-B8½-232		310	1035-B8½-232		354
175 to 250	33	514-524	435-A7-33	11½"	310	1035-A7-33	11½"	350	435-A8½-33	11½"	375	1035-A8½-33	11½"	423
		517	435-B7-33		330	1035-B7-33		368	435-B8½-33		405	1035-B8½-33		449

SHORT SETS (Track and Locking Bolts Omitted)

Up to 100 lbs.	31	NONE	SS435-7-31	9"	113	SS1035-7-31	9"	158	SS435-8½-31	9"	140	SS1035-8½-31	9"	196
100-175	232		SS435-7-232	11"	148	SS1035-7-232	11"	193	SS435-8½-232	11"	148	SS1035-8½-232	11"	199
175-250	33		SS435-7-33	11½"	181	SS1035-7-33	11½"	226	SS435-8½-33	11½"	196	SS1035-8½-33	11½"	239

*COMPLETE SETS—DOORS OPENING IN—(Hinge Combination No. 1)

			8 DOOR SET, 5 FOLDING ONE WAY, FOR OPENING UP TO 24 FT. WIDE						9 DOOR SETS FOR OPENING UP TO 27 FT. WIDE					
			Standard Service			Heavy Service			Standard Service			Heavy Service		
			Catalog Number	Hdrm. Req'd	Wt., Lbs.	Catalog Number	Hdrm. Req'd	Wt., Lbs.	Catalog Number	Hdrm. Req'd	Wt., Lbs.	Catalog Number	Hdrm. Req'd	Wt., Lbs.
Up to 100 lbs.	31	514-524	435-A8-31	9"	177	1035-A8-31	9"	222	435-A9-31	9"	236	1035-A9-31	9"	283
		517	435-B8-31		206	1035-B8-31		250	435-B9-31		264	1035-B9-31		307
100 to 175	232	514-524	435-A8-232	11"	268	1035-A8-232	11"	313	435-A9-232	11"	310	1035-A9-232	11"	350
		517	435-B8-232		300	1035-B8-232		341	435-B9-232		320	1035-B9-232		374
175 to 250	33	514-524	435-A8-33	11½"	340	1035-A8-33	11½"	383	435-A9-33	11½"	382	1035-A9-33	11½"	431
		517	435-B8-33		370	1035-B8-33		411	435-B9-33		410	1035-B9-33		457

SHORT SETS (Track and Locking Bolts Omitted)

Up to 100 lbs.	31	NONE	SS435-8-31	9"	108	SS1035-8-31	9"	161	SS435-9-31	9"	142	SS1035-9-31	9"	200
100-175	232		SS435-8-232	11"	151	SS1035-8-232	11"	220	SS435-9-232	11"	172	SS1035-9-232	11"	229
175-250	33		SS435-8-33	11½"	205	SS1035-8-33	11½"	255	SS435-9-33	11½"	187	SS1035-9-33	11½"	257

*COMPLETE SETS—DOORS OPENING IN—(Hinge Combination No. 1)

			10 DOOR SETS FOR OPENINGS UP TO 30 FT. WIDE					
			Standard Service			Heavy Service		
			Catalog Number	Hdrm. Req'd	Wt., Lbs.	Catalog Number	Hdrm. Req'd	Wt., Lbs.
Up to 100 lbs.	31	514-524	435-A10-31	9"	243	1035-A10-31	9"	289
		517	435-B10-31		279	1035-B10-31		312
100 to 175	232	514-524	435-A10-232	11"	312	1035-A10-232	11"	357
		517	435-B10-232		342	1035-B10-232		387
175 to 250	33	514-524	435-A10-33	11½"	400	1035-A10-33	11½"	444
		517	435-B10-33		430	1035-B10-33		476

SHORT SETS (Track and Locking Bolts Omitted)

Up to 100 lbs.	31	NONE	SS435-10-31	9"	145	SS1035-10-31	9"	202
100-175	232		SS435-10-232	11"	165	SS1035-10-232	11"	222
175-250	33		SS435-10-33	11½"	200	SS1035-10-33	11½"	256

Locking Bolt Combinations

When the letter A is used in any of the catalog numbers as shown above it means that No. 514 Spring Top Locking Bolts and No. 524 Cane Bottom Locking Bolts are furnished with the set of hardware.

When the letter B is used it means that No. 517 Cremona Locking Bolts (adjustable for doors up to 9' high) are furnished with each set of hardware. If doors are over 9' high, order extra 18" sections of the bolt.

*Hinge Combinations

3 sets of hinges furnished regularly. If extra hinges are required, additional charges will be made.

No. 1—Regular Surface and Jamb Hinges are furnished. This set always furnished unless otherwise ordered.

No. 2—Same as No. 1 except that No. DB-1040 Disk Bearing Hinges are used instead of the Regular Surface Hinges. No. 1040 Hinges can not be used on out-opening sets.

No. 3—Ball-bearing hinges No. BB-1035 at jambs and No. BB-1040 between doors on in-opening sets; but ball-bearing hinges No. BB-1035 at jambs only on out-opening sets. (No. 1040 hinges can not be used on out-opening sets.)

Special Notice

These Complete Sets Contain all equipment, bolts, screws, etc., necessary to erect, except suspension bolts and rods.

Sets Include Lag Screws for attaching track brackets. If attachment is to be made to brick or concrete, Expansion Shields should be ordered extra.

Location of Bolt Holes and Bracket Spacing shown on pages 28-29.

Best results are obtained by using doors not more than 3' wide. Wider doors require additional track and brackets. Doors must be of equal width.

Directions for Ordering Complete Sets

State—Number of sets desired, catalog number, width and height of opening and thickness of doors and hinge combination number. Be sure to prefix the letter "O" if Out-Opening—see below.

Example—1 set No. 1035-A7-31-Hinge Combination No. 1 for opening 21' wide, 8' high, doors 1½" thick.

Prefixes to the catalog number: "O" for Out-Opening Sets; "SS" for Short Sets, must of course be added when such sets are ordered.

Slidetite Garage Hardware Sets—7 to 10-Door Openings



Heavy Service In-Opening Set 1035-A7-Hinge Combination No. 1



Standard Service In-Opening Set No. 435-B8-Hinge Combination No. 1

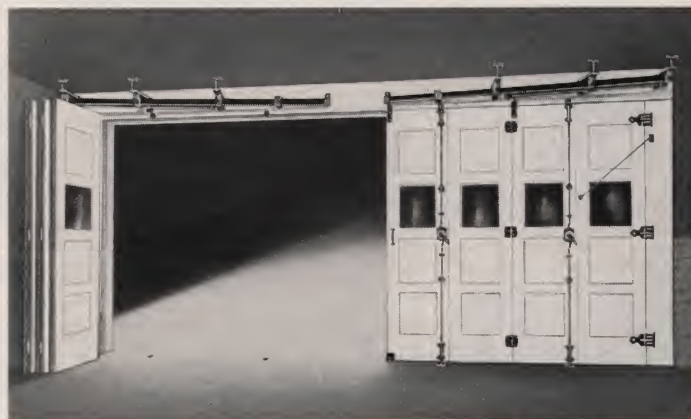
All "A" Sets include No. 514-524 Bolts.

All "B" Sets include No. 517 Cremone Bolts.

"Out-Opening" Sets are specified by prefixing the letter "O."



Heavy Service In-Opening Set 1035-B8½-Hinge Combination No. 1



Standard Service In-Opening Set No. 435-B9-Hinge Combination No. 1

Note the track size (31), (232) or (33) of sets are part of specification.



Heavy Service In-Opening Set 1035-A10-Hinge Combination No. 1

Set No. for set shown at left would read—for 31 size Track as follows:

1 Set 1035-A10-31 Hinge Combination No. 1.

Nos. 435 and 1035 List and Weight of Parts

DESCRIPTION	Light Weight Hardware using No. 31 Track For Doors Weighing up to 100 lbs. each		Medium Weight Hardware using No. 232 Track For Doors Weighing Between 100 to 175 lbs. each		Heavy Weight Hardware using No. 33 Track For Doors Weighing from 175 to 250 lbs. each	
	Catalog Number	Shipping Wt., Lbs.	Catalog Number	Shipping Wt., Lbs.	Catalog Number	Shipping Wt., Lbs.
Hangers, Roller Bearing for In-Opening Doors.....	*435-1	3 1/2	435-3	7 1/2	435-2	7 1/2
Hangers, Roller Bearing, for Out-Opening Doors, each..	**435-21	3 1/2	435-23	7 1/2	435-22	9
Hangers for use with Electric Operator, each.....	2435-1	3 1/2	2435-3	7	2435-2	9
***Trolley Track, per foot.....	31	1 1/2	232	2 3/4	33	4
Bow Handles, each.....	81-1	1 1/2	81-2	1	81-2	1
Bow Handles, each.....	91	1 1/2				
Brackets, Center Track, each.....	435x31-C	1	435x232-C	2 3/4	435x33-C	4 1/4
Brackets, Intermediate Track, each.....	435x31-I	3 1/2				
Brackets, End Track, each.....	435x31-E	5				
Brackets, Joint, each.....	435x31-J	8	435x232-J	10 1/2	435x33-J	14
Brackets, Second, each.....	435x31-S	2	1035x232-S	5	1035x33-S	6
Brackets, Double End, each.....	435x31-DE	11 1/2	435x232-DE	16	435x33-DE	22
Brackets, Double Intermediate, each.....	435x31-DI	10 1/4	435x232-DI	15	435x33-DI	20
Brackets, End Track, each.....	1035x31-E	5	1035x232-E	14	1035x33-E	16
Brackets, Intermediate Track, each.....	1035x31-I	3	1035x232-I	9 1/2	1035x33-I	11
Brackets, Double End, each.....	1035x31-DE	13 1/4	1035x232-DE	19	1035x33-DE	24
Brackets, Double Intermediate, each.....	1035x31-DI	12	1035x232-DI	16	1035x33-DI	21
Brackets, Joint, each.....	1035x31-J	9	1035x232-J	11	1035x33-J	14
Ceiling Clips, each.....	435x31-CC	1/2	435x232-CC	1	435x33-CC	1
*Hinges, Half Surface Butt, per pair.....	311-4"x6 1/2"	2 1/2				
*Hinges, Half Surface Butt, per pair.....	311-4"x8 1/2"	3 1/2				
*Hinges, Half Surface Butt, per pair.....	311-4"x14"	6 1/2				
Hinges, Butt, per pair.....	135-4"x4"	1 1/2	135-4 1/2"x4 1/2"	2	135-4 1/2"x4 1/2"	2
Hinges, Surface, per pair.....	435-2 1/2"x4"	1 1/2	435-3 1/2"x5"	4	435-3 1/2"x5"	4
Hinges, Surface, per pair.....			435-12"x4"	8 1/4	435-12"x4"	8 1/4
Hinges, Surface, per pair.....			435-4"x7"	6	435-4"x7"	6
Hinges, Offset Surface, per pair.....	636-2 1/2"x4"	2	636-3 1/2"x5"	5	636-3 1/2"x5"	5
Hinges, Offset Surface, per pair.....			636-4"x7"	6 1/2	636-4"x7"	6 1/2
Hinges, Offset Surface, per pair.....			636-12"x4"	9 1/4	636-12"x4"	9 1/4
**Hinges, Offset Surface, per pair.....	836-2 1/2"x4"	2	836-3 1/2"x5"	5	836-3 1/2"x5"	5
**Hinges, Offset Surface, per pair.....			836-4"x7"	7 1/4	836-4"x7"	7 1/4
**Hinges, Offset Surface, per pair.....			836-12"x4"	9 1/4	836-12"x4"	9 1/4
Hinges, Offset Surface, per pair.....	1035-19"x2 1/2"	12	1035-19"x2 1/2"	12	1035-19"x2 1/2"	12
	1035-24"x2 1/2"	14	1035-24"x2 1/2"	14	1035-24"x2 1/2"	14
	1035-30"x2 1/2"	16	1035-30"x2 1/2"	16	1035-30"x2 1/2"	16
	1035-36"x2 1/2"	18	1035-36"x2 1/2"	18	1035-36"x2 1/2"	18
Hinges, Reversible Pintle, per pair.....	1039-10"x2 1/2"	3 1/2				
Hinges, Double Strap Surface, per pair.....	1040-15"x2 1/2"	10	1040-15"x2 1/2"	10	1040-15"x2 1/2"	10
Center Floor Guides, each.....	271	3	271	3	271	3
Center Floor Guides, each.....	771	9	771	9	771	9
Bumper Shoes, each.....	435-72	1/2	435-72	1/2	435-72	1/2
Door Holders, each.....	119	1 1/4	119	1 1/4	119	1 1/4
Tie Rod.....	435-10	1 1/4	435-10	1 1/4	435-10	1 1/4

*Used only on in-opening doors.

**For doors opening outside only.

***Length of pieces determined by size of openings.



TRADE MARK

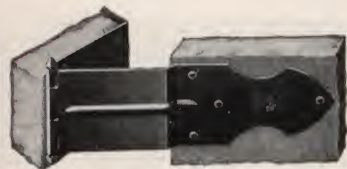
Pages 172-187
Illustrate Other
Major Products
Made by R-W...
Doors, Conveyors, Operators, Etc.



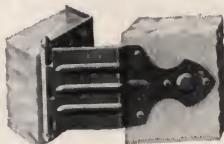
Surface Hinge
No. 435-12" x 4"



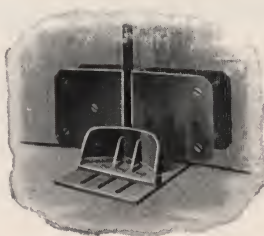
No. 119
Door Holder



Half Surface Butt, 311-4"x14"



Half Surface Butt
311-4" x 8½"
311-4" x 6½"



271 Center Floor Guide
and 435-72 Bumper Shoes



Butt Hinge
135-4" x 4"
135-5" x 5"



Surface Hinge
435-2½" x 4"
435-3½" x 5"
435-4" x 7"



Offset
Surface Hinge
636-2½" x 4"
636-3½" x 5"
636-4" x 7"



Offset
Surface Hinge
836-2½" x 4"
836-3½" x 5"
836-4" x 7"

771
Center
Floor
Guide
used
with
Electric
Door
Operators



Tie
Rod



Nos.
435-1,
435-2,
435-3,
Hanger
for
In-Opening
Doors



Nos.
435-21,
435-22,
435-23,
Special
Hanger
for
Out-Opening
Doors



Offset Surface Hinge 636-12" x 4"



No. 91
Bow
Handle



31, 232 and 33 Straight Lock Joint Trolley Track



Offset Surface Hinge 836-12" x 4"



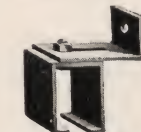
No. 81-1, -2
Bow Handle



Center Bracket



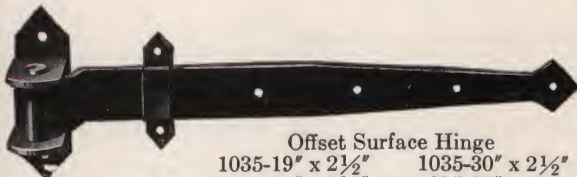
Double End Bracket



Second Bracket



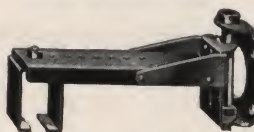
Double Intermediate Bracket



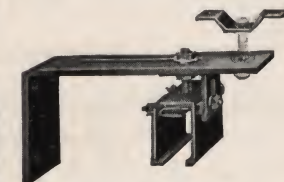
Offset Surface Hinge
1035-19" x 2½" 1035-30" x 2½"
1035-24" x 2½" 1035-36" x 2½"



Intermediate Bracket



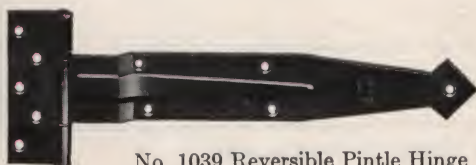
End Bracket



Joint Bracket



No.
2435
Hanger
for use
with
Electric
Door
Operators



No. 1039 Reversible Pintle Hinge

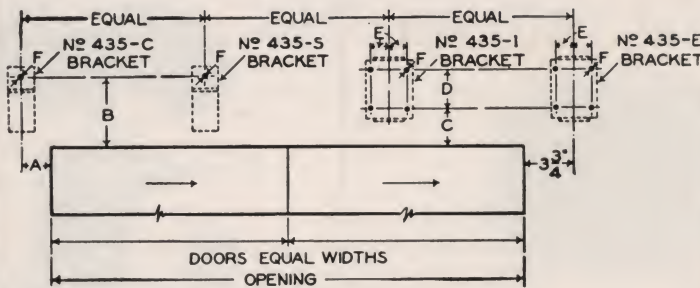


No. 1040 Double Strap Surface Hinge

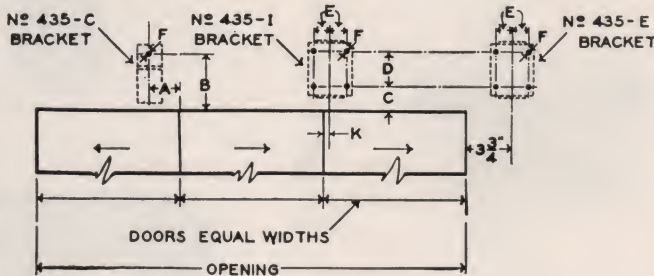
Bolt Spacings for Brackets

For Slidetite 435 and 1035 Two to Six-Door Sets

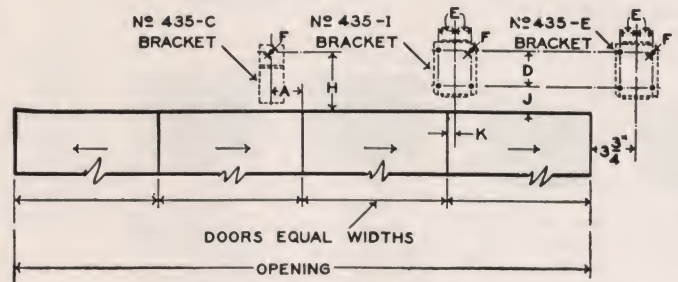
This data shows bolt spacings for use of architects, engineers, and contractors, so that steel lintels may be punched in the shop, or so that bolts may be built into concrete or masonry lintels.



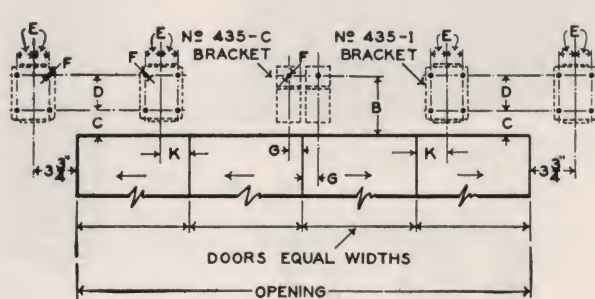
TWO DOOR SET
REVERSE FOR OPPOSITE HAND



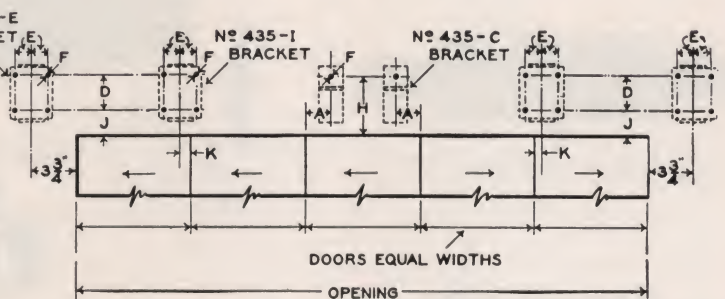
THREE DOOR SET
REVERSE FOR OPPOSITE HAND



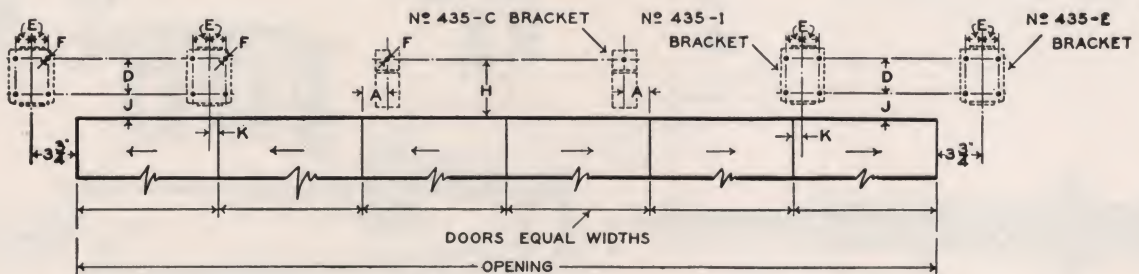
FOUR DOOR SET
ONE TRACK
REVERSE FOR OPPOSITE HAND



FOUR DOOR SET
TWO TRACK



FIVE DOOR SET



SIX DOOR SET

TABLE										
Size of Track	A	B	C	D	E	F Size of Bolt	G	H	J	K
31 & 35	2 1/8"	5 1/4"	2 1/2"	3 "	1 3/8"	3/8"	1 1/4"	7 1/4"	4 1/2"	1 3/4"
232	2 3/4"	7 "	2 1/2"	4 7/8"	2 3/8"	1/2"	1 5/8"	10 "	5 1/2"	3 1/2"
33	2 5/8"	7 "	2 1/2"	4 7/8"	2 3/8"	1/2"	1 3/4"	10 "	5 1/2"	3 1/2"

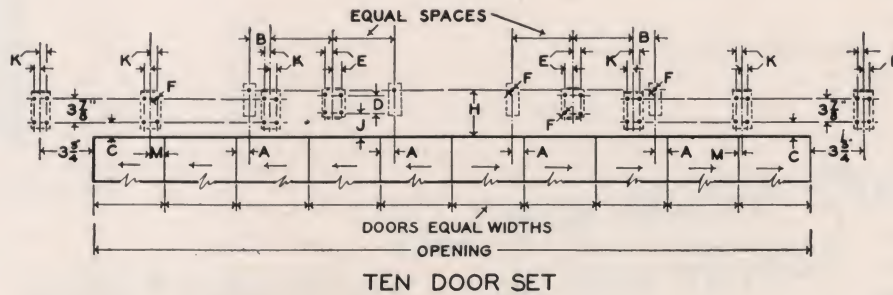
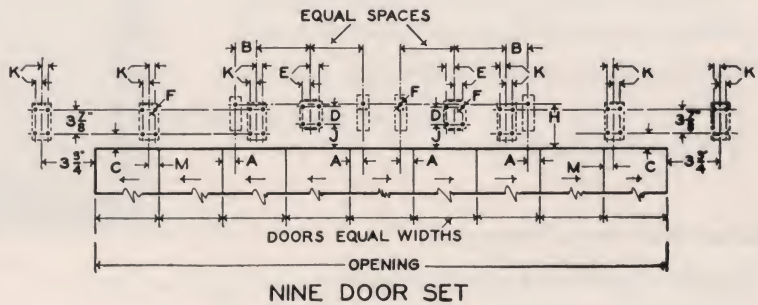
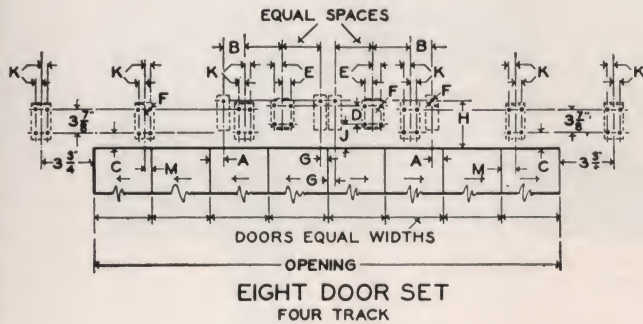
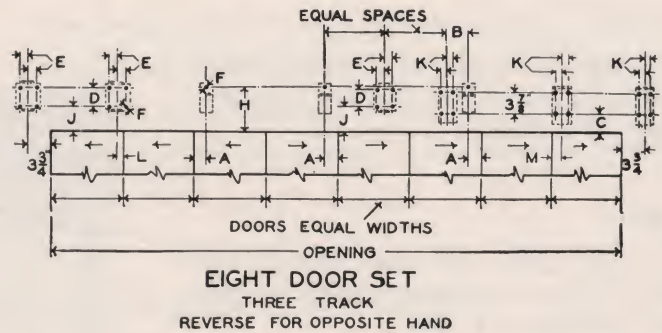
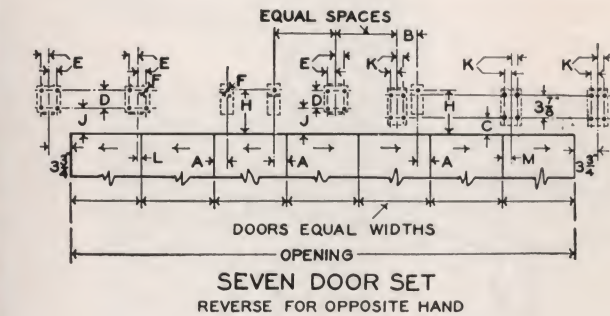
Note—When working in minimum headroom
For No. 31 Track B=4 1/8" C=1 3/4" H=6 7/8" J=3 3/4"
For No. 232 & 33 Track B=6 1/4" C=1 1/2" H=9 3/8" J=4 1/4"

Special Note—Dimensions B and C, above, increase 3/4" when Aut-O-Dor Electric Operator is used.

Bolt Spacings for Brackets

For Slidetite 435 and 1035 Seven to Ten-Door Sets

This data shows bolt spacings for use of architects, engineers, and contractors, so that steel lintels may be punched in the shop, or so that bolts may be built into concrete or masonry lintels.



TABLE

SIZE OF TRACK	A	B	C	D	E	F SIZE BOLT	G	H	J	K	L	M
31 & 35	2 1/8"	3 1/2"	3 3/4"	3"	1 3/8"	3/8"	1 1/4"	7 1/4"	4 3/4"	1"	1 1/2"	1 1/2"
232	2 3/4"	4"	5 1/4"	4 7/8"	2 13/16"	1/2"	1 5/8"	10"	5 1/2"	1"	3 1/2"	1 1/2"
33	2 5/8"	4 1/2"	5 5/8"	4 7/8"	2 13/16"	1/2"	1 3/4"	10 1/8"	5 5/8"	1 1/4"	3 1/2"	2"

NOTE:- WHEN WORKING IN MINIMUM HEADROOM

FOR NO. 31 & 35 TRACK - C = 2 1/2" H = 6 7/8" J = 4"
 " " 232 " - C = 4 1/2" H = 9 3/8" J = 4 1/4"
 " " 33 " - C = 5" H = 9 3/4" J = 5"

No. 999-1 Garage Door Hardware

●Use

For single piece overhead garage doors or two doors fastened together to form a single piece door.

●No. 999-1

For single piece overhead door or two doors fastened together forming a single door weighing up to 200 lbs.

This set includes stiffener angles to help make door more rigid and to prevent sag.

Openings not over 9' wide nor over 8' high.

Weight per set, 95 lbs.

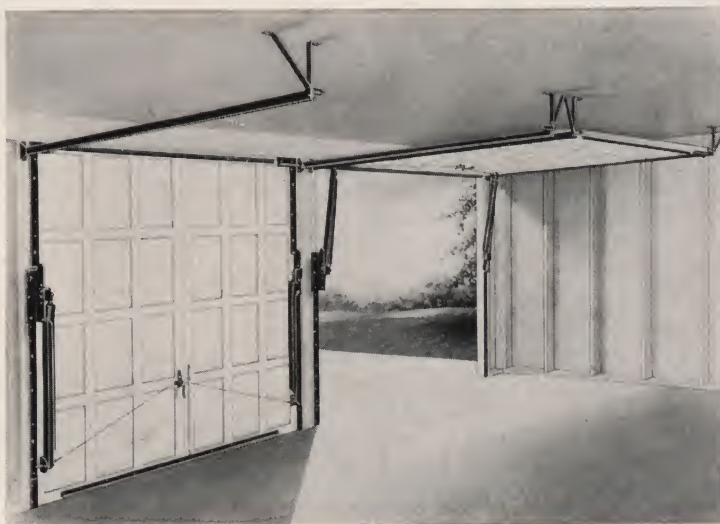
●Clearance Requirements

2-1/8" side room on each jamb.

1" above top of doorway.

●Packed

Complete set in box with instructions.



No. 999-1



Adjustable Rollers

Construction Features

●Adjustable Rollers

Top rollers automatically shiftable in brackets to compensate for unequal spacing of tracks. Full ball bearing.

Rollers, 1-7/8" diameter.

Finish, cadmium plated.

No. 999-1 Garage Door Hardware



Substantial Lock



Spring Counterbalance

•Tamper-Proof Lock

Substantial lock for longer wear. Outside handle with spindle and lock cylinder is separate for ease of installation and maintenance. Lock case on inside of door receives spindle and cylinder. Can be locked from both sides of door.

•Adjustable Spring Counterbalance

Door counterbalanced by springs so adjustable, door will be in almost perfect balance in any position. Properly adjusted springs permit door to rise to full open position after slight start.

•Weatherstrips

Steel weatherstrips provided for both vertical edges of door. Jamb brackets interlock with lower end of upper weatherstrip near center of door to hold door firmly to wall.



**Yes We Make One
of the Finest
Panic Bolts . . .
For Single or Double
Door Openings
See Pages 114-115**

Parallel Sliding Garage Door Hardware

Through the many years of solving doorway problems many methods of hanging and sliding doors have come and gone. Parallel sliding doors erected many years ago are still operating and giving perfect trouble-free service.

Builders and contractors who pride themselves on quality say that parallel hung doors are subject to less abuse and stay in adjustment better, making for longer, better service. The erection costs are minor compared to many other types of doors, and once erected, stay erected.

The advantages of using parallel sliding doors for

garages are:

- (1) Parallel doors "stay inside of the garage," thus protecting the supporting hardware;
- (2) The wind cannot maul them around and they require practically no extra room in which to operate;
- (3) Parallel doors operate smoothly and easily and are absolutely dependable year after year, and
- (4) Parallel doors adapt themselves to 2 or 3 car garages as well as to buildings having long series of parallel hung doors.

Parallel Sliding Garage Door Hardware can be arranged to handle doors as described and illustrated below and on the following pages.

Plan A is an arrangement of two doors on two parallel tracks and is particularly suitable for a two-car garage.

Plan B, an arrangement of three doors on two tracks, admits opening any one of the three doors as shown on the following page and is an economical plan where not more than one door is required to be open at any one time.

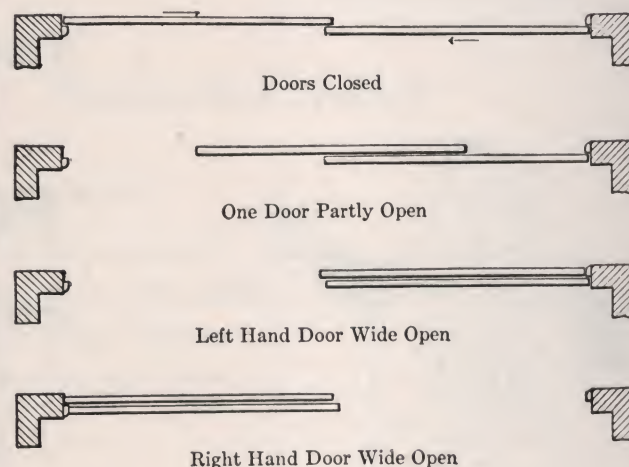
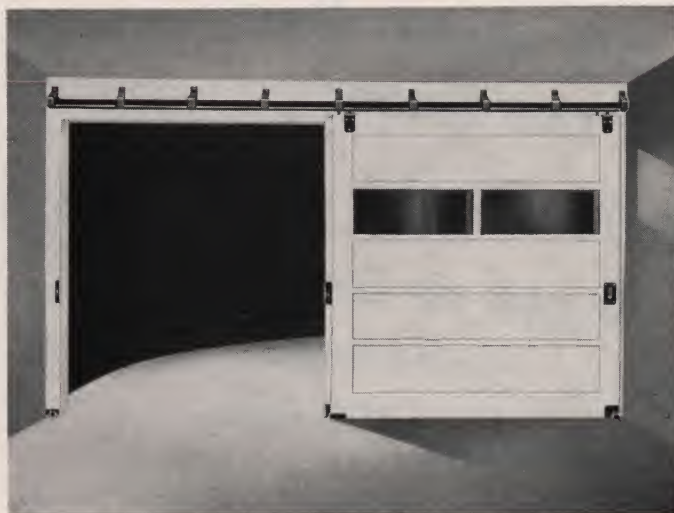
Plan C arranges three doors on three tracks and is designed to permit opening two of the three doors at one and the same time.

The doors in any of these plans are suspended by sidewall or overhead attachment as shown in the details of types 4, 5 and 6 on the following page.

Although it is preferable to use track with weather-strip because of weather tightness, it is furnished with or without weatherstrip, the details of which are shown on pages 34 and 35.

Door hangers with either ball or roller bearing and vertical or lateral adjustment can be supplied.

Plan A—Two Doors Sliding from Jamb to Jamb on Two Parallel Tracks

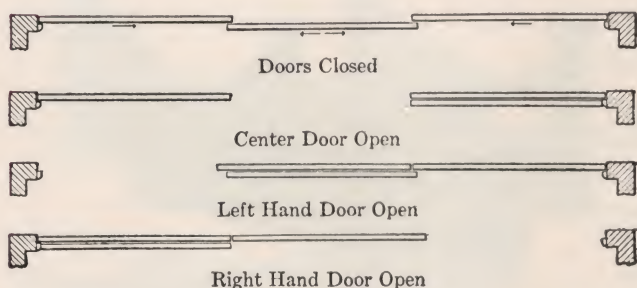


With Weatherstrips

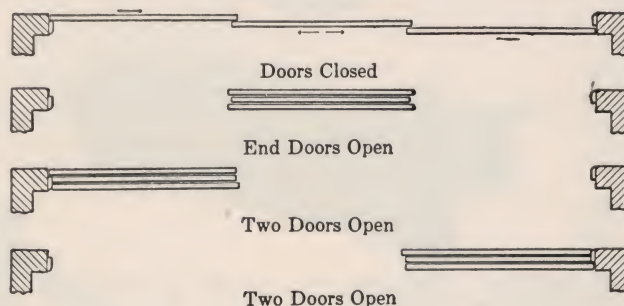
Parallel Sliding Garage Door Hardware

With Weatherstrips

Made in Four Sizes of Track, for Doors Weighing up to 800 lbs.
Plan B—Three Doors Sliding from Jamb to Jamb on Two Parallel Tracks
Sets Do Not Include Hangers



Plan C—Three Doors Sliding from Jamb to Jamb on Three Parallel Tracks



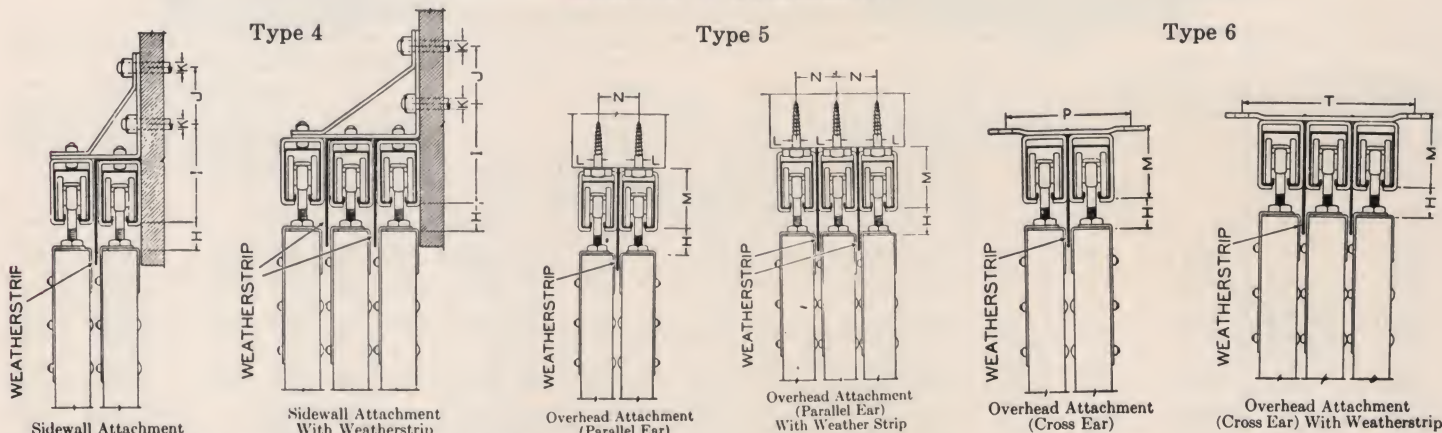
For Plan

Locking Combinations

A	For locking both doors from inside and outside use.....	2 *No. 510 Locks and 1 No. 516 Bolt	Wall Attachment	2 *No. 510 Locks and 1 No. 516 Bolt	Overhead Attachment	2 No. 525 Locks and 1 No. 524 Cane Bolt and 1 No. 525 Lock
	For locking one door from inside only and one door from inside and outside.....	1 *No. 510 Lock and 1 No. 524 Cane Bolt and 1 No. 516 Bolt	Wall Attachment	1 *No. 510 Lock and 1 No. 524 Cane Bolt	Overhead Attachment	1 No. 524 Cane Bolt and 1 No. 525 Lock
B	For locking two end doors from inside and outside and center door from inside only.....	2 *No. 510 Locks and 1 No. 524 Cane Bolt	Inside Installation	2 *No. 510 Locks and 1 No. 516 Bolt	Overhead Attachment	2 No. 525 Locks and 1 No. 524 Bolt
	For locking one end door from inside and outside and two doors from inside only.....	1 *No. 510 Lock and 1 No. 524 Cane Bolt and 1 No. 516 Bolt	Outside Installation	2 No. 510 Locks and 1 No. 516 Bolt	Overhead Attachment	1 No. 525 Lock and 1 No. 524 Cane Bolt and 1 No. 516 Bolt
C	For locking all doors from inside only.....	1 *No. 510 Lock and 2 No. 516 Bolts	Wall Attachment	2 No. 516 Bolts	Overhead Attachment	2 No. 516 Bolts
	For locking doors mounted on tracks with wall brackets, 2 *No. 510 Locks and 1 No. 516 Door Bolt; or 1 *No. 510 Lock, 1 No. 516 Door Bolt and 1 No. 524 Cane Bolt. For locking doors mounted on tracks with overhead brackets, 2 No. 525 Locks and 1 No. 516 Door Bolt; or 1 No. 525 Lock, 1 No. 516 Door Bolt and 1 No. 524 Cane Bolt. All of the above locks are operated from inside and outside.					

Note—*No. 525 Locks may be substituted if desired, but jamb strips flush with the face of the door must be provided. †The lock may be omitted and only the bolts used, if jamb strips flush with the face of the door are provided at both ends of the opening.

Methods of Attachment



Type 4. Showing suspension of tracks by side wall brackets; the most popular and regularly used type of attachment.

Type 5. Showing suspension by overhead parallel ear brackets where installation under the lintel or to an overhead beam is

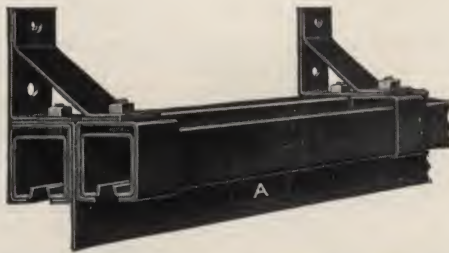
preferred.

Type 6. Showing suspension by overhead cross-ear brackets used where lintel or overhead beam is wide enough.

Note—For dimensions of above cross sections, see pages 34 and 35.

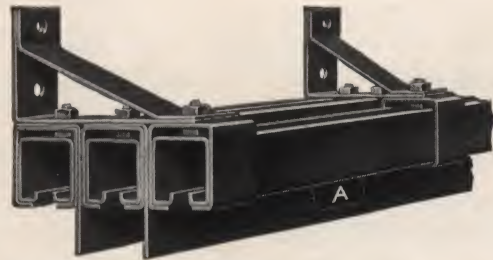
Parallel Sliding Garage Door Hardware

Track, Bracket and Weatherstrip Assemblies



Sets Do Not
Include Hangers

Side Wall Attachment



No. 256-2 Two-Trk. Assm. using 31 trk. Wt. per ft. $8\frac{1}{4}$ lbs.
No. 257-2 Two-Trk. Assm. using 32 trk. Wt. per ft. $9\frac{1}{2}$ lbs.
No. 258-2 Two-Trk. Assm. using 33 trk. Wt. per ft. $14\frac{3}{4}$ lbs.
No. 259-2 Two-Trk. Assm. using 232 trk. Wt. per ft. $12\frac{3}{4}$ lbs.

No. 256-3 Three-Trk. Assm. using 31 trk. Wt. per ft. $14\frac{1}{2}$ lbs.
No. 257-3 Three-Trk. Assm. using 32 trk. Wt. per ft. $15\frac{1}{2}$ lbs.
No. 258-3 Three-Trk. Assm. using 33 trk. Wt. per ft. $23\frac{1}{2}$ lbs.
No. 259-3 Three-Trk. Assm. using 232 trk. Wt. per ft. $20\frac{3}{4}$ lbs.



Overhead
Attachment

Parallel Ear
Attachment



No. 356-2 Two-Trk. Assm. using 31 trk. Wt. per ft. 7 lbs.
No. 357-2 Two-Trk. Assm. using 32 trk. Wt. per ft. 8 lbs.
No. 358-2 Two-Trk. Assm. using 33 trk. Wt. per ft. 13 lbs.
No. 359-2 Two-Trk. Assm. using 232 trk. Wt. per ft. 11 lbs.

No. 356-3 Three-Trk. Assm. using 31 trk. Wt. per ft. 12 lbs.
No. 357-3 Three-Trk. Assm. using 32 trk. Wt. per ft. 13 lbs.
No. 358-3 Three-Trk. Assm. using 33 trk. Wt. per ft. 22 lbs.
No. 359-3 Three-Trk. Assm. using 232 trk. Wt. per ft. 19 lbs.



Overhead
Attachment

Cross Ear
Attachment



No. 556-2 Two-Trk. Assm. using 31 trk. Wt. per ft. $7\frac{1}{2}$ lbs.
No. 557-2 Two-Trk. Assm. using 32 trk. Wt. per ft. 9 lbs.
No. 558-2 Two-Trk. Assm. using 33 trk. Wt. per ft. $14\frac{1}{2}$ lbs.
No. 559-2 Two-Trk. Assm. using 232 trk. Wt. per ft. 12 lbs.

No. 556-3 Three-Trk. Assm. using 31 trk. Wt. per ft. $12\frac{1}{2}$ lbs.
No. 557-3 Three-Trk. Assm. using 32 trk. Wt. per ft. 14 lbs.
No. 558-3 Three-Trk. Assm. using 33 trk. Wt. per ft. $23\frac{1}{2}$ lbs.
No. 559-3 Three-Trk. Assm. using 232 trk. Wt. per ft. 20 lbs.

List and Specifications of Door Hangers for Parallel Sliding Garage Door Hardware

Roller-Bearing Hangers, packed with- out track brackets.		Ball-Bearing Hangers, packed with- out track brackets.		Track No.	For doors weigh- ing, Lbs.	Thick- ness of doors	Dimensions Apply to All Cross-Sectional Runs of Parallel Tracks												
							"H" for Roller- Bearing Hangers		"H" for Ball- Bearing Hangers		I	J	Diameter of bracket bolt		M	*N	O	P	T
													K	L					
No.	Per Pair Shipping Wt., Lbs.	No.	Per Pair Shipping Wt., Lbs.				Mini- mum	Maxi- mum	Mini- mum	Maxi- mum									
20-2	8	20½B	6½	31	300	1¾-2¼"	1¾"	2¼"	⅞"	2⅜"	4¾"	2¾"	¼"	¼"	3½"	2¼"	.....	6⅝"	9"
25-1	11½	27½B-1	9	31	300	1¾-2"	1¾"	2½"	⅞"	2⅜"	4¾"	2¾"	½"	½"	3½"	2¼"	.....	6⅝"	9"
25-2	11½	27½B-2	9	31	300	2¼-2¾"	1¾"	2½"	⅞"	2⅜"	4¾"	2¾"	½"	½"	3½"	2¼"	.....	6⅝"	9"
28V-1	12½	28½B-1	11	32	400	1¾-2"	1⅝"	2⅝"	⅞"	2"	4⅞"	3¼"	⅝"	½"	3⅝"	2¼"	.....	7"	9½"
28V-2	12½	28½B-2	11	32	400	2¼-2¾"	1⅝"	2⅝"	⅞"	2"	4⅞"	3¼"	⅝"	½"	3⅝"	2½"	.....	7"	9½"
29V-1	16	29½B-1	14	232	600	1¾-2"	1¾"	3¾"	⅞"	1¾"	5⅞"	3¼"	¾"	¾"	4¾"	2⅞"	.....	7⅝"	10½"
29V-2	16	29½B-2	14	232	600	2¼-2¾"	1¾"	3¾"	⅞"	1¾"	5⅞"	3½"	¾"	¾"	4¾"	2⅞"	.....	7⅝"	10½"
121-1	25	123½B-1	25	33	800	1¾-2"	2¼"	3¾"	1⅞"	3"	5⅞"	3½"	¾"	¾"	4⅞"	.....	3⅝"	9¼"	12¼"
121-2	25	123½B-2	25	33	800	2¼-3"	2¼"	3¾"	1⅞"	3"	5⅞"	3½"	¾"	¾"	4⅞"	.....	3⅝"	9¼"	12¼"
150-1	25	150½B-1	25	33	800	1¾-2"	2¼"	3¾"	1⅞"	3"	5⅞"	3½"	¾"	¾"	4⅞"	.....	3⅝"	9¼"	12¼"
150-2	25	150½B-2	25	33	800	2¼-3"	2¼"	3¾"	1⅞"	3"	5⅞"	3½"	¾"	¾"	4⅞"	.....	3⅝"	9¼"	12¼"

*N is $\frac{1}{4}$ " greater than O.

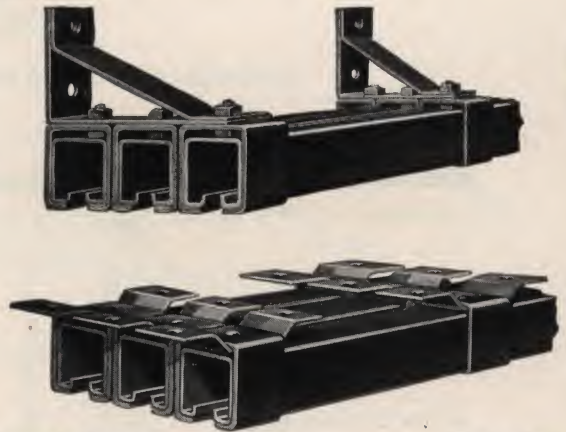
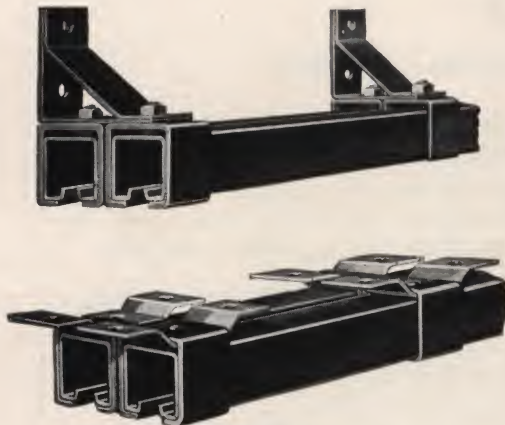
Note—The letter A on the weatherstripping, in the above illustrations, shows the location of plates, which may be removed when it is desired to get at the adjusting bolts of the hangers.

Track and Bracket Assemblies

Without Weatherstrips

Sets Do Not Include Hangers

Illustrations of Double and Triple Brackets Supporting Parallel Tracks Without Weatherstrips



List of Double Brackets

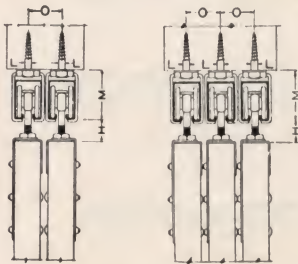
List of Double Brackets		Weight, Each
No. 22 x 31 Bracket for doors up to 2" thick.	2" to 2½" thick.	2½ lbs.
No. 256-2 x 31 Bracket for doors 2½" to 2" thick.	2½" to 2" thick.	2½ lbs.
No. 22 x 32 Bracket for doors up to 2" thick.	2" to 2½" thick.	4½ lbs.
No. 257-2 x 32 Bracket for doors 2½" to 2" thick.	2½" to 2" thick.	4½ lbs.
No. 22 x 33 Bracket for doors up to 2½" thick.	2½" to 3" thick.	7½ lbs.
No. 258-2 x 33 Bracket for doors 3" to 3½" thick.	3" to 3½" thick.	7½ lbs.
No. 22 x 232 Bracket for doors up to 2½" thick.	2½" to 2" thick.	5½ lbs.
No. 259-2 x 232 Bracket for doors 2½" to 2" thick.	2½" to 2" thick.	5½ lbs.

Note—No. 7 Brackets are used for parallel tracks, overhead attachment.

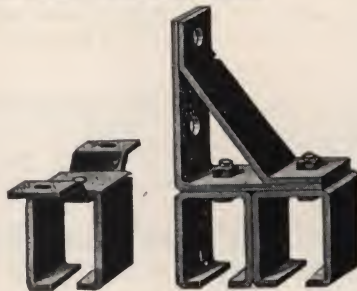
List of Triple Brackets

List of Triple Brackets		Weight, Each
No. 33 x 31	Bracket for doors up to 2" thick	4 1/2 lbs.
No. 256-3 x 31	Bracket for doors 2 1/4" to 2 3/4" thick	4 1/2 lbs.
No. 33 x 32	Bracket for doors up to 2" thick	5 1/2 lbs.
No. 257-3 x 32	Bracket for doors 2 1/4" to 2 3/4" thick	5 1/2 lbs.
No. 33 x 33	Bracket for doors up to 2 3/4" thick	10 1/2 lbs.
No. 258-3 x 33	Bracket for doors 3" to 3 3/4" thick	10 1/2 lbs.
No. 33 x 232	Bracket for doors up to 2 1/4" thick	8 1/2 lbs.
No. 259-3 x 232	Bracket for doors 2 1/4" to 2 3/4" thick	8 1/2 lbs.

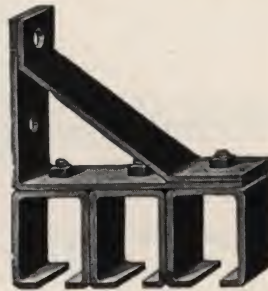
No. 259-3 x 232 Bracket for doors 2½" to 2¾" thick..... 8½ lbs.



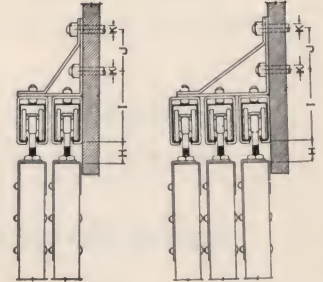
Cross-Section showing overhead bracket attachments without weather-strip.



Nos. 7 x 31, 7 x 32, 7 x 33, 7 x 232 Brackets	Nos. 22, 256-2, 257-2, 258-2, 259-2, Double Brackets
---	--



Nos. 33, 256-3, 257-3,
258-3, 259-3,
Triple Brackets



Cross-Section showing side wall-bracket attachments without weather-strip.

No. 22 Double Bracket and No. 33 Triple Bracket are used for parallel tracks, side wall attachment, as illustrated above, without weatherstrips. Can be furnished without the first and second brackets proper for supporting a single track extended from the wall when so specified.



Showing No. 29 Double Brackets, with track

List of Double Brackets

List of Double Brackets			Weight, Each
No. 29 x 31	Bracket for doors up to 2 "	thick	2½ lbs.
No. 29 x 32	Bracket for doors up to 2 "	thick	4½ lbs.
No. 29 x 33	Bracket for doors up to 2 ¼ "	thick	8½ lbs.
No. 29 x 232	Bracket for doors up to 2 ¼ "	thick	6 lbs.

Note—No. 5 Brackets are used for single track, overhead attachment.



Showing No. 31 Triple Brackets, with track

List of Triple Brackets

List of Triple Brackets		Weight, Each
No. 31 x 31 Bracket for doors up to 2 "	thick.....	4 ½ lbs.
No. 31 x 32 Bracket for doors up to 2 "	thick.....	6 lbs.
No. 31 x 33 Bracket for doors up to 2 ¼ "	thick.....	14 lbs.
No. 31 x 232 Bracket for doors up to 2 ¼ "	thick.....	9 lbs.

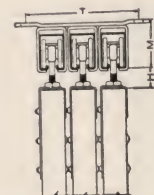
No. 31 x 232 Bracket for doors up to 2 1/4" thick.....	9	lbs.
--	---	------

Dimensions Apply to All Cross-Sectional Runs of Parallel Tracks

[illegible]

*N is $\frac{1}{8}$ " greater than O.

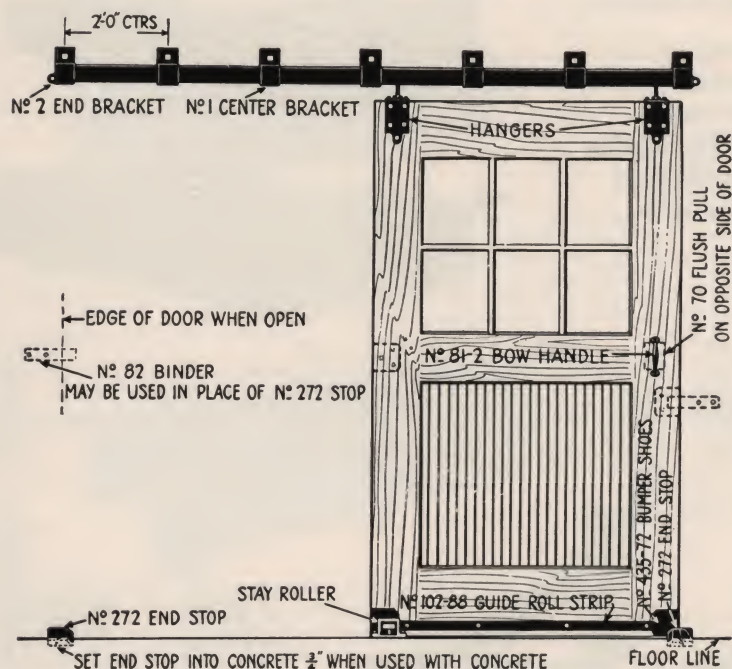
Cross-Sections showing overhead bracket attachments without weatherstrips.



Hardware Sets for Single Straight Sliding Doors

For Inside or Outside Installation

To Order: Merely Specify Catalog Number and Width of Opening



These complete sets contain the following hardware:

- 1 Pair Hangers, less brackets.
Sufficient Lock Joint Trolley Track (approximately twice width of opening).
- 2 End Track Brackets.
Sufficient Center and Lock Joint Track Brackets (spaced on approx. 2' 0" centers).
- 1 Bow Handle.
- 1 Flush Pull.
- 4 No. 435-72 Bumper Shoes.
- *2 Floor End Stops.
- 1 Stay Roller.
Sufficient No. 102-88 Guide Roll Strips.

*Wall Binders will be furnished instead of Floor End Stops if so specified.

NOTE—Illustration shows hardware ordinarily furnished. On extra large doors, heavier stay rollers and stops are furnished.

TABLE SHOWING CATALOG NUMBER TO SPECIFY DEPENDING ON THE HANGERS AND TRACK DESIRED

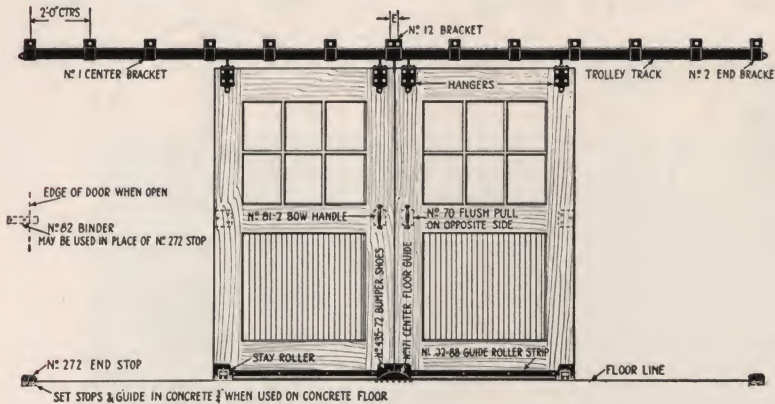
Catalog Number	Hanger Number	Track Number	For Doors Weighing, Lbs.	Thickness of Doors, Inches	Dist. Bottom of Track to Ctr. of Brk't. Bolt Hole	Diameter of Bracket Bolt, Inches	Distance Top of Door to Bottom of Track		Center of Bracket Bolt Hole to Top of Bracket
							Minimum	Maximum	
Complete Sets Including Ball-Bearing Hangers									
1020 1/2	20 1/2 B	31	300	1 3/4 - 2 1/2	3 1/2"	1/2	1 3/8"	2 3/8"	3/8"
1027 1/2-1	27 1/2 B-1	31	300	1 3/4 - 2	3 1/2"	1/2	1 3/8"	2 3/8"	3/8"
1027 1/2-2	27 1/2 B-2	31	300	2 1/4 - 2 3/4	3 1/2"	1/2	1 3/8"	2 3/8"	3/8"
1028 1/4-1	28 1/4 B-1	32	400	1 3/4 - 2	4 1/4"	1/2	1 3/8"	2 3/8"	7/8"
1028 1/4-2	28 1/4 B-2	32	400	2 1/4 - 2 3/4	4 1/4"	1/2	1 3/8"	2 3/8"	7/8"
1029 1/2-1	29 1/2 B-1	232	600	1 3/4 - 2	4 3/4"	5/8	1 1/8"	2 1/2"	7/8"
1029 1/2-2	29 1/2 B-2	232	600	2 1/4 - 2 3/4	4 3/4"	5/8	1 1/8"	2 1/2"	7/8"
1123 1/2-1	123 1/2 B-1	33	800	1 3/4 - 2	5 "	3/4	1 1/4"	2 3/8"	3/4"
1123 1/2-2	123 1/2 B-2	33	800	2 1/4 - 3	5 "	3/4	1 1/4"	2 3/8"	3/4"
1150 1/2-1	150 1/2 B-1	33	800	1 3/4 - 2	5 "	3/4	1 1/4"	2 3/8"	3/4"
1150 1/2-2	150 1/2 B-2	33	800	2 1/4 - 3 1/2	5 "	3/4	1 1/4"	2 3/8"	3/4"
1499-1	499-1	233	1200	1 3/4 - 2	6 "	3/4	1 1/4"	2 3/8"	1"
1499-2	499-2	233	1200	2 1/4 - 3 1/2	6 "	3/4	1 1/4"	2 3/8"	1"
1598-1	598-1	533	2000	1 3/4 - 2 1/4	6 "	3/4	1 3/4"	3 1/4"	1"
1598-2	598-2	533	2000	2 1/2 - 3 1/4	6 "	3/4	1 3/4"	3 1/4"	1"
1598-3	598-3	533	2000	3 1/2 - 4 1/4	6 "	3/4	1 3/4"	3 1/4"	1"
Complete Sets Including Roller-Bearing Hangers									
1020-2	20-2	31	300	1 3/4 - 2 1/2	3 1/2"	1/2	1 3/8"	2 3/8"	3/8"
1025-1	25-1	31	300	1 3/4 - 2	3 1/2"	1/2	1 3/8"	2 3/8"	3/8"
1025-2	25-2	31	300	2 1/4 - 2 3/4	3 1/2"	1/2	1 3/8"	2 3/8"	3/8"
1028-1	28 V-1	32	400	1 3/4 - 2	4 1/4"	1/2	1 3/8"	2 3/8"	7/8"
1028-2	28 V-2	32	400	2 1/4 - 2 3/4	4 1/4"	1/2	1 3/8"	2 3/8"	7/8"
1029-1	29 V-1	232	600	1 3/4 - 2	4 3/4"	5/8	1 1/4"	2 1/2"	7/8"
1029-2	29 V-2	232	600	2 1/4 - 2 3/4	4 3/4"	5/8	1 1/4"	2 1/2"	7/8"
1121-1	121-1	33	800	1 3/4 - 2	5 "	3/4	1 1/4"	2 3/8"	3/4"
1121-2	121-2	33	800	2 1/4 - 3	5 "	3/4	1 1/4"	2 3/8"	3/4"
1150-1	150-1	33	800	1 3/4 - 2	5 "	3/4	1 1/4"	2 3/8"	3/4"
1150-2	150-2	33	800	2 1/4 - 3 1/2	5 "	3/4	1 1/4"	2 3/8"	3/4"

NOTE—If hardware is required for STEEL DOORS, give complete description of door

Hardware Sets for Double Straight Sliding Doors

For Inside or Outside Installation

To Order: Merely Specify Catalog Number and Width of Opening



NOTE—Illustration shows hardware ordinarily furnished. On extra large doors, heavier stay rollers and stops are furnished.

Wall type brackets shown. If ceiling type is required, specify on order.

These complete sets contain the following hardware:

2 Pair Hangers, less brackets.

Sufficient Lock Joint Trolley Track (approximately twice width of opening).

1 Center Stop Bracket.

2 End Track Brackets.

Sufficient Center and Lock Joint Track Brackets (spaced on approximately 2' 0" centers).

2 Bow Handles.

2 Flush Pulls.

8 No. 435-72 Bumper Shoes.

*2 Floor End Stops.

1 Center Floor Guide.

2 Stay Rollers.

Sufficient No. 102-88 Guide Roller Strip.

*Wall Binders will be furnished instead of Floor End Stops if so specified.

TABLE SHOWING CATALOG NUMBER TO SPECIFY DEPENDING ON THE HANGERS AND TRACK DESIRED

Catalog Number	Hanger Number	Track Number	For Doors Weighing, Lbs.	Thick-ness of Doors, Inches	Distance Bottom of Track to Center of Bracket Bolt Hole	Diameter of Bracket Bolt, Inches	Distance Top of Door to Bottom of Track		Center of Bracket Bolt Hole to Top of Bracket, Inches	Bolt Hole Centers in No. 12 Brackets, Inches	Size of Hole in No. 12 Brackets Inches
							Minimum	Maximum			
Complete Sets Including Ball-Bearing Hangers											
2020 $\frac{1}{2}$ 2027 $\frac{1}{2}$ -1 2027 $\frac{1}{2}$ -2	20 $\frac{1}{2}$ B 27 $\frac{1}{2}$ B-1 27 $\frac{1}{2}$ B-2	31 31 31	300 300 300	1 $\frac{3}{4}$ -2 $\frac{1}{2}$ 1 $\frac{3}{4}$ -2 2 $\frac{1}{4}$ -2 $\frac{3}{4}$	3 $\frac{1}{2}$ " 3 $\frac{1}{2}$ " 3 $\frac{1}{2}$ "	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	1 $\frac{1}{8}$ " 1 $\frac{1}{8}$ " 1 $\frac{1}{8}$ "	2 $\frac{3}{8}$ " 2 $\frac{3}{8}$ " 2 $\frac{3}{8}$ "	$\frac{3}{4}$ $\frac{3}{4}$ $\frac{3}{4}$	2 $\frac{3}{4}$ 2 $\frac{3}{4}$ 2 $\frac{3}{4}$	$\frac{3}{8}$ $\frac{3}{8}$ $\frac{3}{8}$
2028 $\frac{1}{2}$ -1 2028 $\frac{1}{2}$ -2	28 $\frac{1}{2}$ B-1 28 $\frac{1}{2}$ B-2	32 32	400 400	1 $\frac{3}{4}$ -2 2 $\frac{1}{4}$ -2 $\frac{3}{4}$	4 $\frac{1}{4}$ " 4 $\frac{1}{4}$ "	$\frac{1}{2}$ $\frac{1}{2}$	1 $\frac{1}{8}$ " 1 $\frac{1}{8}$ "	2 $\frac{3}{8}$ " 2 $\frac{3}{8}$ "	$\frac{7}{8}$ $\frac{7}{8}$	2 $\frac{3}{4}$ 2 $\frac{3}{4}$	$\frac{3}{8}$ $\frac{3}{8}$
2029 $\frac{1}{2}$ -1 2029 $\frac{1}{2}$ -2	29 $\frac{1}{2}$ B-1 29 $\frac{1}{2}$ B-2	232 232	600 600	1 $\frac{3}{4}$ -2 2 $\frac{1}{4}$ -2 $\frac{3}{4}$	4 $\frac{1}{2}$ " 4 $\frac{1}{2}$ "	$\frac{5}{8}$ $\frac{5}{8}$	1 $\frac{1}{8}$ " 1 $\frac{1}{8}$ "	2 $\frac{1}{2}$ " 2 $\frac{1}{2}$ "	$\frac{7}{8}$ $\frac{7}{8}$	2 $\frac{3}{4}$ 2 $\frac{3}{4}$	$\frac{3}{8}$ $\frac{3}{8}$
2123 $\frac{1}{2}$ -1 2123 $\frac{1}{2}$ -2	123 $\frac{1}{2}$ B-1 123 $\frac{1}{2}$ B-2	33 33	800 800	1 $\frac{3}{4}$ -2 2 $\frac{1}{4}$ -3	5 " 5 "	$\frac{3}{4}$ $\frac{3}{4}$	1 $\frac{1}{4}$ " 1 $\frac{1}{4}$ "	2 $\frac{3}{8}$ " 2 $\frac{3}{8}$ "	$\frac{3}{4}$ $\frac{3}{4}$	2 $\frac{3}{4}$ 2 $\frac{3}{4}$	$\frac{3}{8}$ $\frac{3}{8}$
2150 $\frac{1}{2}$ -1 2150 $\frac{1}{2}$ -2	150 $\frac{1}{2}$ B-1 150 $\frac{1}{2}$ B-2	33 33	800 800	1 $\frac{3}{4}$ -2 2 $\frac{1}{4}$ -3 $\frac{1}{2}$	5 " 5 "	$\frac{3}{4}$ $\frac{3}{4}$	1 $\frac{1}{4}$ " 1 $\frac{1}{4}$ "	2 $\frac{3}{8}$ " 2 $\frac{3}{8}$ "	$\frac{3}{4}$ $\frac{3}{4}$	2 $\frac{3}{4}$ 2 $\frac{3}{4}$	$\frac{3}{8}$ $\frac{3}{8}$
2499-1 2499-2	499-1 499-2	233 233	1200 1200	1 $\frac{3}{4}$ -2 2 $\frac{1}{4}$ -3 $\frac{1}{2}$	6 $\frac{1}{4}$ " 6 $\frac{1}{4}$ "	$\frac{3}{4}$ $\frac{3}{4}$	1 $\frac{1}{4}$ " 1 $\frac{1}{4}$ "	2 $\frac{3}{8}$ " 2 $\frac{3}{8}$ "	1 1	3 3	$\frac{15}{16}$ $\frac{15}{16}$
2598-1 2598-2 2598-3	598-1 598-2 598-3	533 533 533	2000 2000 2000	1 $\frac{3}{4}$ -2 $\frac{1}{4}$ 2 $\frac{1}{2}$ -3 $\frac{1}{4}$ 3 $\frac{1}{2}$ -4 $\frac{1}{4}$	6 " 6 " 6 "	$\frac{3}{4}$ $\frac{3}{4}$ $\frac{3}{4}$	1 $\frac{3}{4}$ " 1 $\frac{3}{4}$ " 1 $\frac{3}{4}$ "	3 $\frac{1}{4}$ " 3 $\frac{1}{4}$ " 3 $\frac{1}{4}$ "	1 1 1	3 $\frac{1}{4}$ 3 $\frac{1}{4}$ 3 $\frac{1}{4}$	$\frac{15}{16}$ $\frac{15}{16}$ $\frac{15}{16}$

Complete Sets Including Roller-Bearing Hangers

2020-2	20-2	31	300	1 3/4-2 1/2	3 1/2"	1/2"	1 3/8"	2 3/8"	3/4"	2 3/4"	3/8"
2025-1	25-1	31	300	1 3/4-2	3 1/2"	1/2"	1 3/8"	2 3/8"	3/4"	2 3/4"	3/8"
2025-2	25-2	31	300	2 1/4-2 3/4	3 1/2"	1/2"	1 3/8"	2 3/8"	3/4"	2 3/4"	3/8"
2028-1	28V-1	32	400	1 3/4-2	4 1/4"	1/2"	1 3/8"	2 3/8"	7/8"	2 3/4"	3/8"
2028-2	28V-2	32	400	2 1/4-2 3/4	4 1/4"	1/2"	1 3/8"	2 3/8"	7/8"	2 3/4"	3/8"
2029-1	29V-1	232	600	1 3/4-2	4 1/2"	5/8"	1 1/8"	2 1/2"	7/8"	2 3/4"	3/8"
2029-2	29V-2	232	600	2 1/4-2 3/4	4 1/2"	5/8"	1 1/8"	2 1/2"	7/8"	2 3/4"	3/8"
2121-1	121-1	33	800	1 3/4-2	5 "	3/4"	1 1/4"	2 3/8"	3/4"	2 3/4"	3/8"
2121-2	121-2	33	800	2 1/4-3	5 "	3/4"	1 1/4"	2 3/8"	3/4"	2 3/4"	3/8"
2150-1	150-1	33	800	1 3/4-2	5 "	3/4"	1 1/4"	2 3/8"	3/4"	2 3/4"	3/8"
2150-2	150-2	33	800	2 1/4-3 1/2	5 "	3/4"	1 1/4"	2 3/8"	3/4"	2 3/4"	3/8"

NOTE—If hardware is required for STEEL DOORS, give complete description of door.

R-W No. 7988 ACCESSORIES

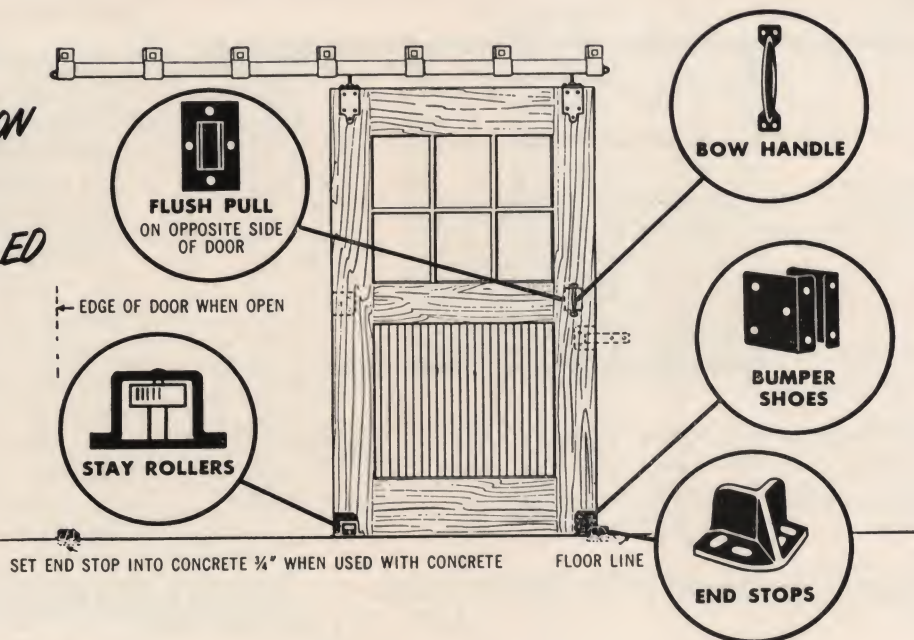
FOR SINGLE OR DOUBLE STRAIGHT SLIDING DOORS

For Inside or Outside Installations

• QUALITY CONSTRUCTION
• LIFETIME SERVICE
• HEAVY DUTY
• EASILY INSTALLED



Trade Mark



A TYPICAL R-W INSTALLATION
WITH No. 7988 HARDWARE

No. 7988 Door Accessories

The No. 7988 hardware items are accessories for sliding wood doors. The illustration at the top of the page shows clearly the No. 7988 items in dark print.

For double sliding doors order two sets of hardware. The No. 7988 accessories are quality items that will give years of dependable service. This type hardware is ideal for use on barns, tool sheds, and industrial factories.

R-W "Lock-Joint" TRACK
"Unequaled in
PERFORMANCE"



HERE'S WHY!

- **Positive Locking**
"Lock-Joint" brackets lock two lengths of track together as one piece of track.
 - **Fits Any Size Opening**
"Lock-Joint" track and brackets make possible a smooth run of track of any length.
 - **A Track for Every Door**
R-W offers a wide range of weights and sizes of track . . . from 100 lbs. to 3,000 lbs. Finish: Gray enamel regular; galvanized, available when specified.
- ACCEPT NO SUBSTITUTES**

No. 7988 Door Hardware

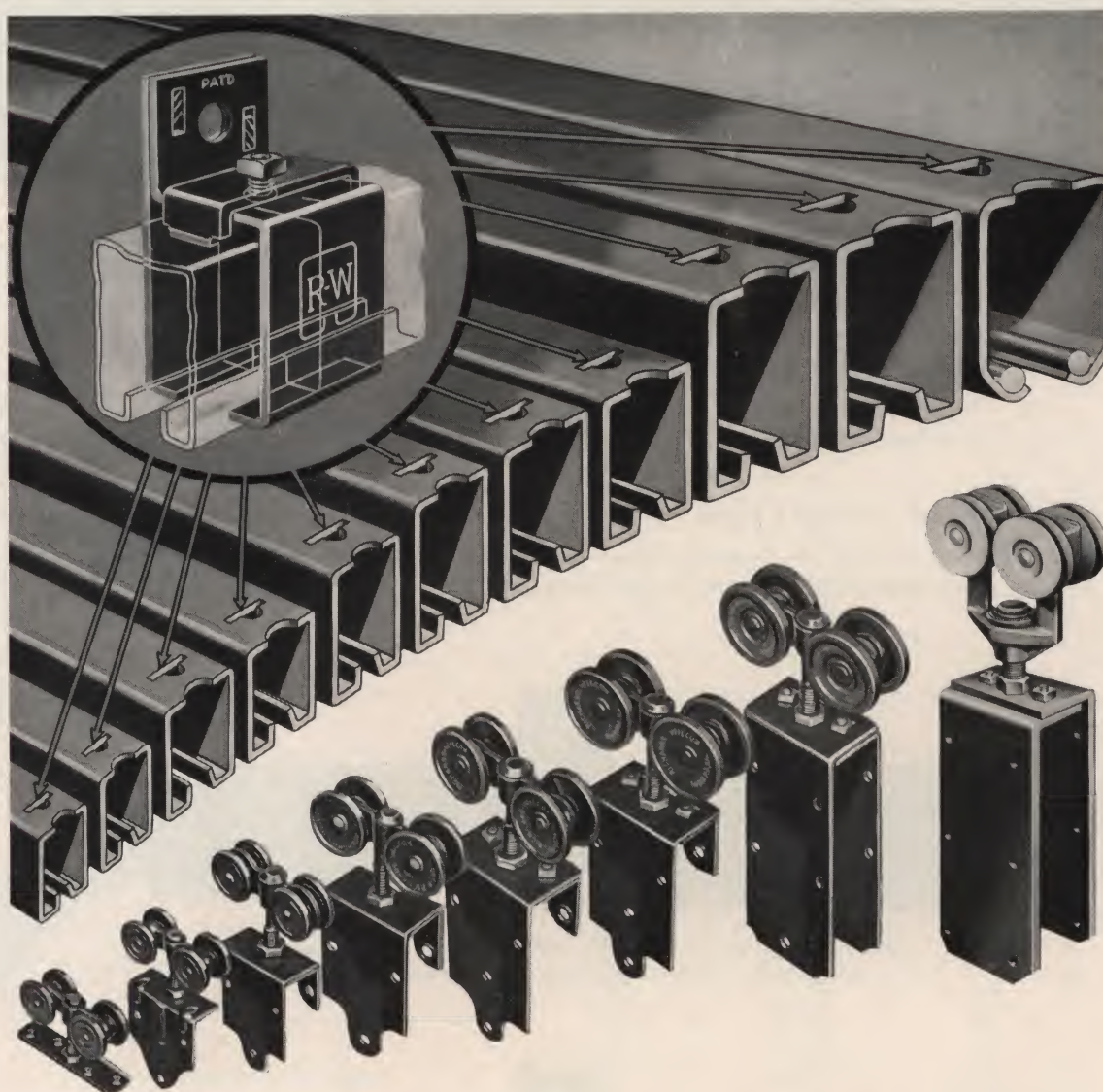
1	No. 54	Stay Roller
1	No. 70-1	Flush Pull
1	No. 71-2	Bow Handle
4	No. 435-72	Bumper Shoes
2	No. 572	End Stops

Screws Furnished For Installation

RICHARDS-WILCOX MFG. CO. • Aurora, Illinois

RICHARDS-WILCOX . . .

THE ORIGINATORS OF THE WORLD-FAMOUS LOCK-JOINT POSITIVE LOCKING FEATURE FOR TROLLEY TRACKS



**Whether It's Ball or Roller Bearing Hangers Richards-Wilcox
Makes It Best**

R-W Tracks, Hangers and Brackets

For Correct "Hand" of R-W Doors See Page 2

Lock-Joint Trolley Tracks

®
An Exclusive R-W Feature



- **Positive Locking**

Track perforated for lock-joint brackets. Lock-joint brackets lock two lengths of track together as one piece of track.

- **Fits Any Size Opening**

Lock-joint brackets make possible run of track of any length. Track available in different lengths.

- **A Track for Every Door**

Several sizes of lock-joint track for doors of various weights and sizes. See track cross sections on following pages for various sizes of track.

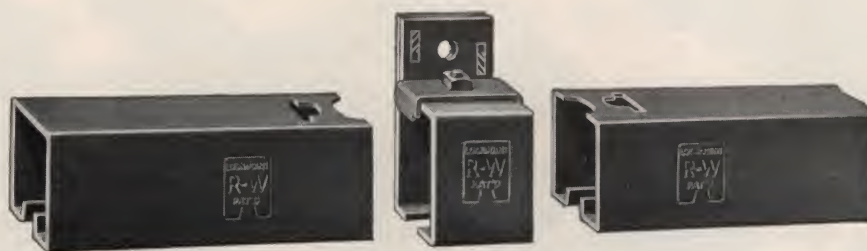


Illustration shows an **R-W No. 39** Lock-Joint Bracket and two pieces of R-W Lock-Joint track before bracket is applied.



Here the bracket has been applied and is shown locking the two ends of tracks together, providing a perfect joint.

Lock-Joint Curved Trolley Tracks



R-W Curved trolley tracks are also made lock-joint so the straight sections of track adjoining the curves are always held in place and form a perfect runway for the

hanger wheels. The most common curve is the 90 degree curve, although any degree curve can be furnished.

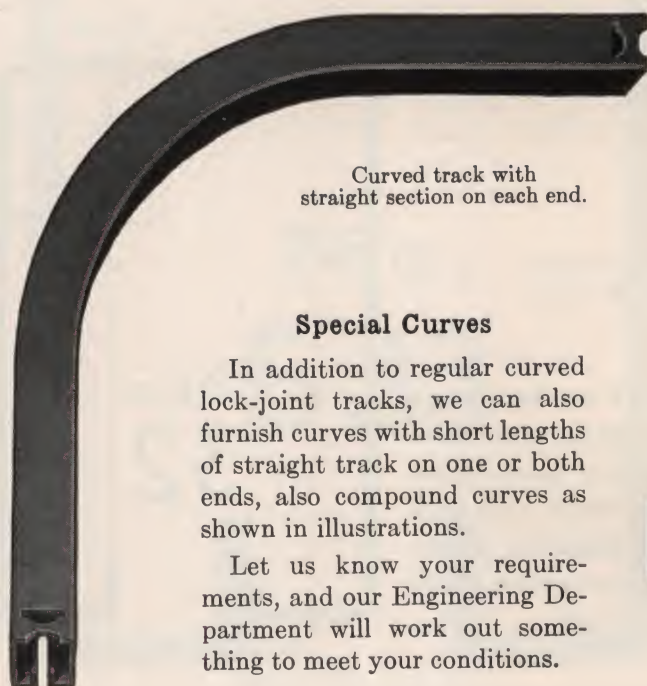
Table of Standard Stock Size 90 Degree Curves

		For Track No.						
		30	30½	31 and 75	32	232	33	375
Radius Curve	}	*1' 3"	*1' 3"	*1' 6"	.....	*2' 0"	.....	.....
		2' 0"	2' 0"	2' 0"	*2' 0"	*2' 0"	.....	.....
		2' 6"	2' 6"	2' 6"	2' 6"	2' 6"	*2' 6"	*2' 6"
		3' 0"	3' 0"	3' 0"	3' 0"	3' 0"	3' 0"	3' 0"
		.....	.....	3' 6"	.....	3' 6"	3' 6"	3' 6"
		.....	.....	4' 0"	4' 0"	4' 0"	4' 0"	4' 0"
		.....	.....	5' 0"	5' 0"	5' 0"	5' 0"	5' 0"
	

... Indicates not made in this size.

*Minimum radius which we can furnish.

Larger radius curves made on order.



Curved track with straight section on each end.

Special Curves

In addition to regular curved lock-joint tracks, we can also furnish curves with short lengths of straight track on one or both ends, also compound curves as shown in illustrations.

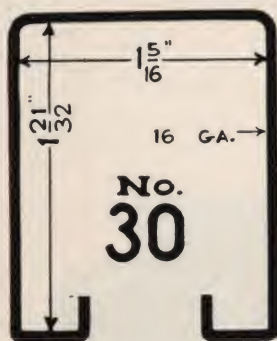
Let us know your requirements, and our Engineering Department will work out something to meet your conditions.

Number of Feet Straight Track in 90 Degree Curves

Radius	Ft. Track	Radius	Ft. Track
2'0"	3.1416	6'0"	9.4248
2'6"	3.9270	6'6"	10.3102
3'0"	4.7124	7'0"	10.9956
3'6"	5.4976	7'6"	11.7810
4'0"	6.2833	8'0"	12.5664
4'6"	7.0686	8'6"	13.3518
5'0"	7.8540	9'0"	14.1372
5'6"	8.6394	9'6"	14.9228
		10'0"	15.7080



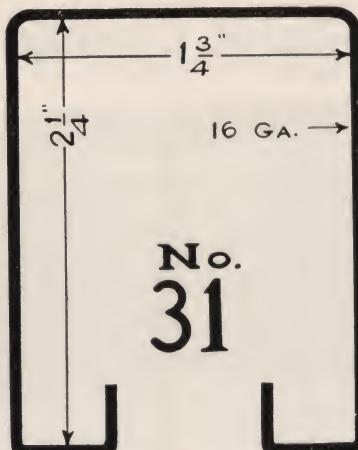
Compound Curve



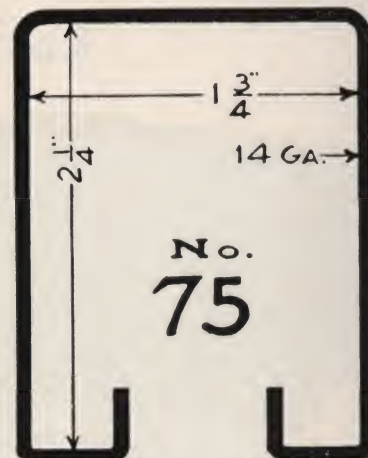
Weight 1 lb. per foot



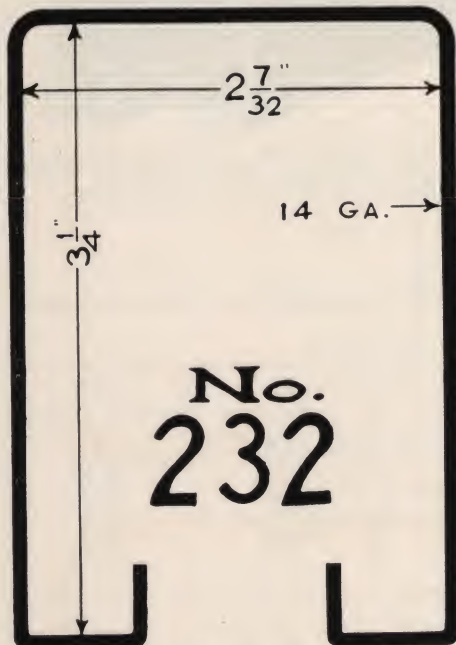
Weight 1 1/2 lbs. per foot



Weight 1 3/4 lbs. per foot



Weight 2 lbs. per foot



Weight 2 3/4 lbs. per foot

Lock-Joint Tracks Full Size Cross Sections Track Lengths

*Nos. 30, 30 1/2, 32, 33, 35, 75, 232, 233, 375 and 533 tracks available in stock lengths of 4', 6', 8' and 10'.

No. 31 track available in stock lengths of 4', 6', 8', 10' and 12'.

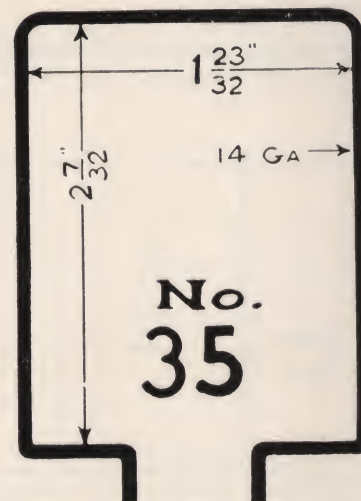
No. 31 track can also be furnished in longer one piece sections up to 20', at no extra charge.

*No. 888 track, available in stock lengths of 4', 6', 8' and 12'.

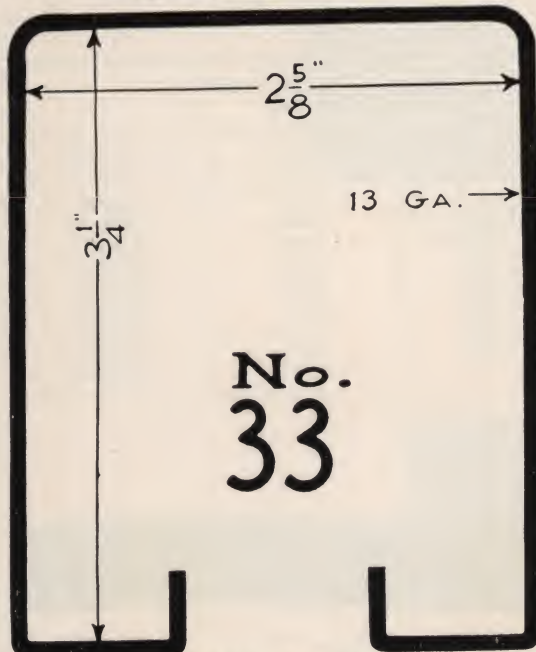
*R-W can furnish all these tracks in longer sections, up to 20' on special order by welding at an extra charge.

Brackets are shown
on pages 90 to 111

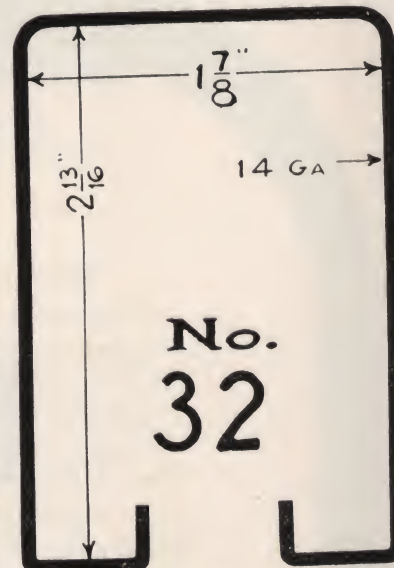
All the tracks on this page and the next page are perforated to receive Lock-Joint Brackets which bind and lock tracks securely together, making virtually a one-piece track regardless of length.



Weight 2 1/4 lbs. per foot

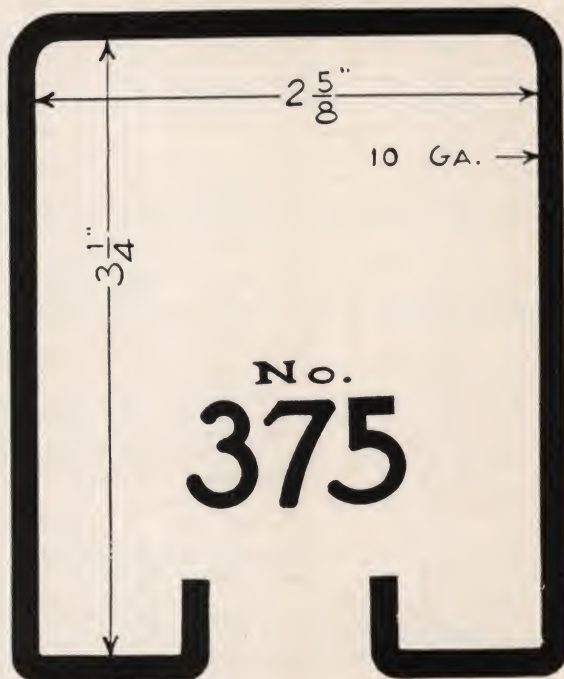


Weight 4 lbs. per foot

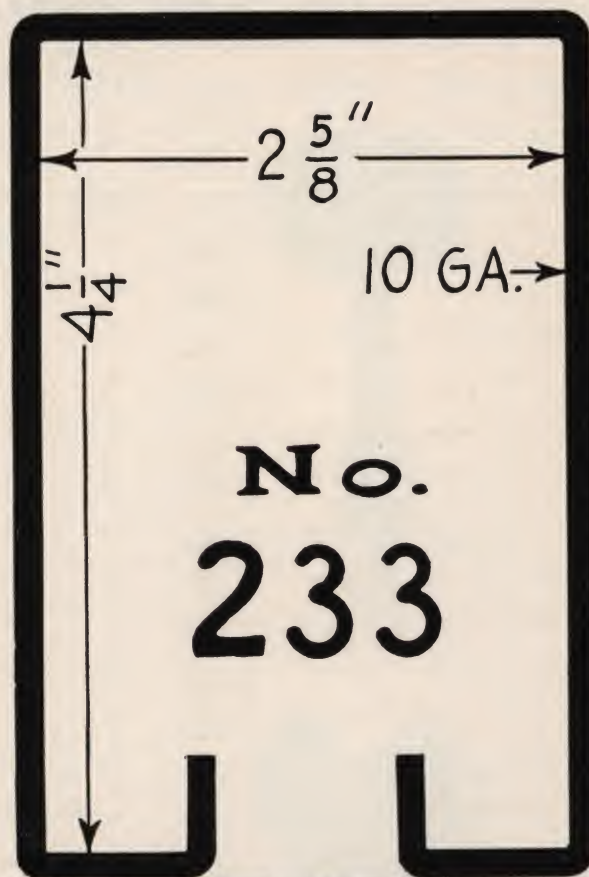


Weight 2 1/2 lbs. per foot

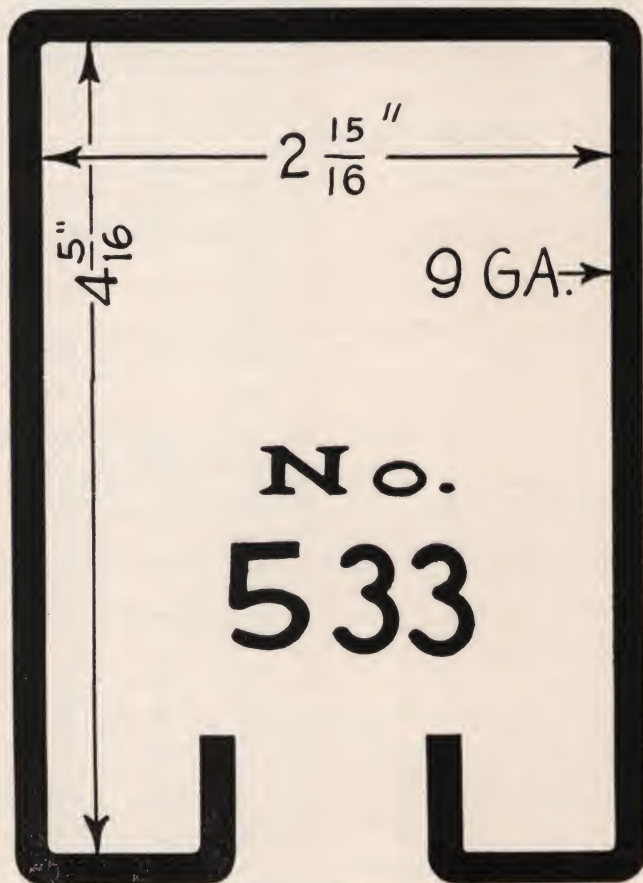
Full Size Cross Sections of "Lock-Joint" Trolley Tracks



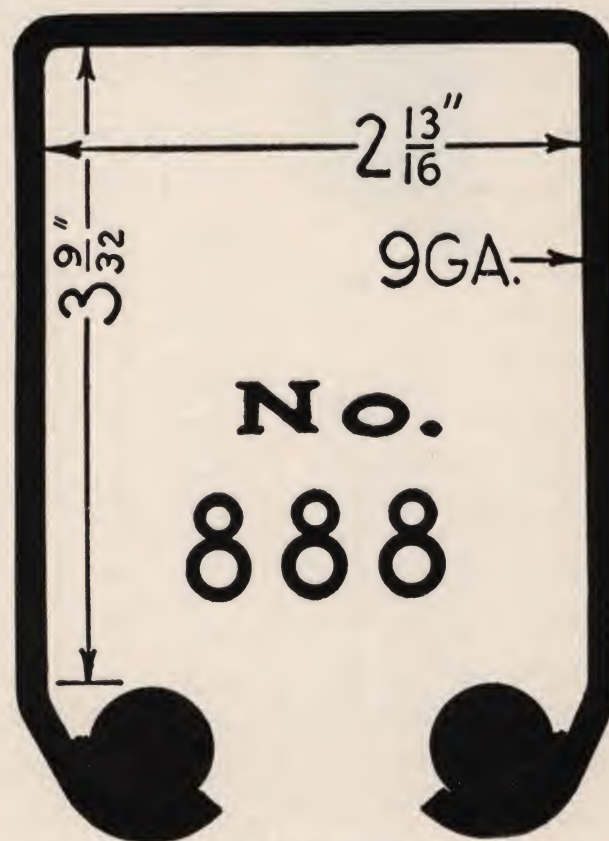
Weight 5 $\frac{3}{4}$ lbs. per foot



Weight 6 $\frac{1}{4}$ lbs. per foot



Weight 8 lbs. per foot



Weight 8 lbs. per foot

RICHARDS-WILCOX DOOR HANGERS

For "Lock-Joint," Round and Flat Track

Hanger	For Doors	For Doors Up to Lbs.	Aprons	For Use In R-W Track	Type Bearing	Page No.	Hanger	For Doors	For Doors Up to Lbs.	Aprons	For Use In R-W Track	Type Bearing	Page No.
0030	$\frac{1}{8}$ "- $1\frac{1}{4}$ "	100 Lbs.	Top Plate	30	Ball	46	286-2	$2\frac{1}{4}$ "-3"	1,000 Lbs.	$9\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	375	Ball	68
020-2	$1\frac{3}{4}$ "- $2\frac{1}{4}$ "	300 Lbs.	6" Long $3\frac{1}{2}$ " Wide	31	Roller	50	314	$1\frac{3}{8}$ " or More	200 Lbs.	Top Plate	$30\frac{1}{2}$	Roller	47
030	See Hanger Page	See Hanger Page	Pendant Type	See Hanger Page	Ball	45	323	$1\frac{3}{4}$ "- $2\frac{1}{4}$ "	300 Lbs.	6" Long $3\frac{1}{2}$ " Wide	31	Roller	57
031	See Hanger Page	See Hanger Page	$5\frac{1}{2}$ " Long $3\frac{1}{2}$ " Wide	31	Roller	45	329	For Doors 1" or More	100 Lbs.	Top Plate	30	Ball	46
20	$1\frac{3}{4}$ "- $2\frac{1}{4}$ "	300 Lbs.	6" Long $3\frac{1}{2}$ " Wide	31	Roller	48	346	$1\frac{3}{8}$ "- $1\frac{3}{4}$ "	200 Lbs.	6" Long $3\frac{3}{4}$ " Wide	239	Roller	75
20 $\frac{1}{2}$ B	$1\frac{3}{4}$ "- $2\frac{1}{4}$ "	300 Lbs.	6" Long $3\frac{1}{2}$ " Wide	31	Ball	51	346 $\frac{1}{2}$ B	$1\frac{3}{8}$ "- $1\frac{3}{4}$ "	200 Lbs.	$4\frac{3}{8}$ " Long $3\frac{3}{4}$ " Wide	239	Ball	75
20-2	$1\frac{3}{4}$ "- $2\frac{1}{4}$ "	300 Lbs.	6" Long $3\frac{1}{2}$ " Wide	31	Roller	48	362	$1\frac{3}{4}$ " Thick	250 Lbs.	6" Long $3\frac{1}{2}$ " Wide	242-B Round	Roller	80
25-1	$1\frac{3}{4}$ "-2"	300 Lbs.	$7\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	31	Roller	52	399 x 36	$1\frac{3}{4}$ " Thick	300 Lbs.	6" Long $3\frac{1}{2}$ " Wide	36	Roller	76
25-2	$2\frac{1}{4}$ "- $2\frac{3}{4}$ "	300 Lbs.	$7\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	31	Roller	52	421	$1\frac{3}{4}$ "- $2\frac{1}{2}$ "	300 Lbs.	6" Long $3\frac{1}{2}$ " Wide	35	Roller	58
26	$1\frac{3}{4}$ " or More	300 Lbs.	4" Long $3\frac{1}{2}$ " Wide	31	Ball	54	423-35	$1\frac{3}{4}$ "- $2\frac{1}{2}$ "	300 Lbs.	6" Long $3\frac{1}{2}$ " Wide	35	Roller	58
27 $\frac{1}{2}$ B-1	$1\frac{3}{4}$ "-2"	300 Lbs.	$7\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	31	Ball	53	423-36	$1\frac{3}{4}$ "-2"	300 Lbs.	6" Long $3\frac{1}{2}$ " Wide	36	Roller	76
27 $\frac{1}{2}$ B-2	$2\frac{1}{4}$ "- $2\frac{3}{4}$ "	300 Lbs.	$7\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	31	Ball	53	429	1" or More	100 Lbs.	$3\frac{1}{2}$ " Long $3\frac{3}{4}$ " Wide	30	Ball	46
28 V-1	$1\frac{3}{4}$ "-2"	400 Lbs.	$7\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	32	Roller	60	455	$1\frac{3}{4}$ "- $3\frac{1}{2}$ "	1,500 Lbs.	17" Long $11\frac{1}{4}$ " Wide	542-D Round	Roller	86
28 V-2	$2\frac{1}{4}$ "- $2\frac{3}{4}$ "	400 Lbs.	$7\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	32	Roller	60	462-1	$1\frac{3}{4}$ "-2"	150 Lbs.	$9\frac{1}{2}$ " Long $3\frac{3}{4}$ " Wide	242-A Round	Roller	81
28 $\frac{1}{2}$ B-1	$1\frac{3}{4}$ "-2"	400 Lbs.	$7\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	32	Ball	61	462-2	$1\frac{3}{4}$ "- $2\frac{1}{2}$ "	250 Lbs.	$10\frac{1}{2}$ " Long $3\frac{1}{2}$ " Wide	242-B Round	Roller	81
28 $\frac{1}{2}$ B-2	$2\frac{1}{4}$ "- $2\frac{3}{4}$ "	400 Lbs.	$7\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	32	Ball	61	499-1	$1\frac{3}{4}$ "-2"	1,200 Lbs.	$9\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	233	Ball	70
29 V-1	$1\frac{3}{4}$ "-2"	600 Lbs.	$7\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	232	Roller	62	499-2	$2\frac{1}{4}$ "- $3\frac{1}{2}$ "	1,200 Lbs.	$9\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	233	Ball	70
29 V-2	$2\frac{1}{4}$ "- $2\frac{3}{4}$ "	600 Lbs.	$7\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	232	Roller	62	542-A	$1\frac{3}{4}$ "	150 Lbs.	$9\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	542-A Round	Roller	82
29 $\frac{1}{2}$ B-1	$1\frac{3}{4}$ "-2"	600 Lbs.	$7\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	232	Ball	63	542-B	$1\frac{3}{4}$ "-2"	250 Lbs.	$9\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	542-B Round	Roller	82
29 $\frac{1}{2}$ B-2	$2\frac{1}{4}$ "- $2\frac{3}{4}$ "	600 Lbs.	$7\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	232	Ball	63	542-C2	$1\frac{3}{4}$ "- $2\frac{1}{4}$ "	800 Lbs.	See Hanger Page	542-C Round	Roller	83
38	$1\frac{3}{4}$ " Only	See Hanger Page	See Hanger Page	See Hanger Page	Roller	88	542-C3	$2\frac{1}{2}$ "- $2\frac{3}{8}$ "	800 Lbs.	See Hanger Page	542-C Round	Roller	83
43	$1\frac{3}{4}$ " Thick	250 Lbs.	Pendant	63-68 Flat	Roller	88	543	$1\frac{3}{4}$ "- $2\frac{1}{2}$ "	300 Lbs.	6" Long $3\frac{3}{8}$ " Wide	242-B Round	Roller	84
47	$1\frac{3}{4}$ " Thick	250 Lbs.	5" Long $2\frac{1}{2}$ " Wide	50 Flat	Roller	87	598-1	$1\frac{3}{4}$ "- $2\frac{1}{4}$ "	2,000 Lbs.	12" Long 5" Wide	533	Ball	72
101	2"-3"	Made in 3 Sizes	See Hanger Page	101 Flat	Roller	89	598-2	$2\frac{1}{2}$ "- $3\frac{1}{4}$ "	2,000 Lbs.	12" Long 5" Wide	533	Ball	72
121-1	$1\frac{3}{4}$ "-2"	800 Lbs.	$9\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	33	Roller	64	598-3	$3\frac{1}{2}$ "- $4\frac{1}{4}$ "	2,000 Lbs.	12" Long 5" Wide	533	Ball	72
121-2	$2\frac{1}{4}$ "-3"	800 Lbs.	$9\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	33	Roller	64	621	$1\frac{3}{4}$ "- $2\frac{1}{2}$ "	300 Lbs.	6" Long $3\frac{1}{2}$ " Wide	31	Roller	56
123 $\frac{1}{2}$ B-1	$1\frac{3}{4}$ "-2"	800 Lbs.	$9\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	33	Ball	65	642-5	$1\frac{3}{4}$ "- $2\frac{1}{2}$ "	800 Lbs.	See Hanger Page	542-C Round	Roller	85
123 $\frac{1}{2}$ B-2	$2\frac{1}{4}$ "-3"	800 Lbs.	$9\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	33	Ball	65	721	$1\frac{3}{4}$ "- $2\frac{1}{2}$ "	300 Lbs.	6" Long $3\frac{1}{2}$ " Wide	35	Roller	59
126	1" or More	200 Lbs.	Top Plate	$30\frac{1}{2}$	Ball	47	888-3	$1\frac{3}{4}$ "- $4\frac{1}{4}$ "	2,500 Lbs.	Top Plate	888	Ball	71
150-1	$1\frac{3}{4}$ "-2"	800 Lbs.	$9\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	33	Roller	66	888-13	$1\frac{3}{4}$ "- $4\frac{1}{4}$ "	2,500 Lbs.	12" Long 5" Wide	888	Ball	71
150-2	$2\frac{1}{4}$ "-3"	800 Lbs.	$9\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	33	Roller	66	1026	$1\frac{3}{8}$ " or More	200 Lbs.	$4\frac{1}{2}$ " Long $3\frac{3}{4}$ " Wide	$30\frac{1}{2}$	Ball	47
150 $\frac{1}{2}$ B-1	$1\frac{3}{4}$ "-2"	800 Lbs.	$9\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	33	Ball	67	1043	$1\frac{3}{4}$ "- $2\frac{1}{2}$ "	250 Lbs.	6" Long $3\frac{1}{2}$ " Wide	50 Flat	Roller	87
150 $\frac{1}{2}$ B-2	$2\frac{1}{4}$ "-3"	800 Lbs.	$9\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	33	Ball	67	1098-1	$1\frac{3}{4}$ "- $2\frac{1}{4}$ "	3,000 Lbs.	12" Long 5" Wide	533	Ball	73
155	$2\frac{1}{4}$ "- $3\frac{1}{2}$ "	1,600 Lbs.	9" Long $4\frac{1}{2}$ " Wide	375	Roller	69	1098-2	$2\frac{1}{2}$ "- $3\frac{1}{4}$ "	3,000 Lbs.	12" Long	533	Ball	73
155 $\frac{1}{2}$ B	$2\frac{1}{4}$ "- $3\frac{1}{2}$ "	1,600 Lbs.	9" Long $4\frac{1}{2}$ " Wide	375	Ball	69	1098-3	$3\frac{1}{2}$ "- $4\frac{1}{4}$ "	3,000 Lbs.	12" Long	533	Ball	73
223	$1\frac{3}{4}$ "- $2\frac{1}{2}$ "	300 Lbs.	6" Long $3\frac{1}{2}$ " Wide	31	Roller	55	1314	$1\frac{3}{8}$ " or More	200 Lbs.	$4\frac{1}{2}$ " Long $3\frac{3}{4}$ " Wide	$30\frac{1}{2}$	Roller	47
226	$1\frac{3}{8}$ " or More	300 Lbs.	Top Plate	31	Ball	54	1314-2	$1\frac{3}{4}$ "- $2\frac{1}{4}$ "	200 Lbs.	6" Long $3\frac{3}{8}$ " Wide	239	Roller	75
286-1	$1\frac{3}{4}$ "-2"	1,000 Lbs.	$9\frac{1}{2}$ " Long $4\frac{1}{2}$ " Wide	375	Ball	68							

Hangers for Light Weight Doors

No. 030 Hanger

● **Use**

For display racks, curtains, panelled doors, etc.

● **Sizes**

Four sizes for different tracks (see table below).

● **Construction**

Wheels, steel. Frames, drop forged. Bearings, steel balls. Adjustment, vertical.

● **Finish**

Cadmium plated.

● **Packed**

One pair in box with screws.



No. 030 Hanger

Weight Table

Hanger Number	Track Number	Capacity, Lbs.	Diameter of Wheels	Weight, Hangers per Pair	Weight, Track per Foot
030-1	30	25	1-1/2"	1 lb.	1 lb.
030-2	30-1/2	50	1-3/4"	1-1/2 lbs.	1-1/2 lbs.
030-3	31-75	75	2-1/8"	2 lbs.	1-2/3 lbs.
030-5	375	300	3"	4 lbs.	5-3/4 lbs.

No. 031 Hanger

Two Doors Mounted Parallel in a Single Run of Track

One Pair of Hangers Operate on each Lip as Cross-Section Indicates.

● **Use**

For very light weight parallel doors not more than 1-3/8" thick.
Runs in No. 31 track.

● **Construction**

Wheels, steel, 2-1/8" diameter.

Bearings, roller. Apron, 5-1/8" long, 3-1/2" wide, 1/8" thick.

● **Finish**

Cadmium plated.

● **Packed**

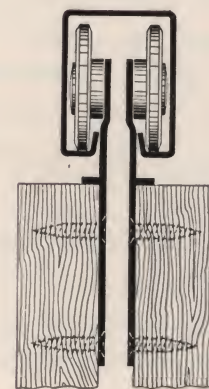
One pair in box with screws.

● **Weight**

Per pair, 2-1/2 lbs.



No. 031 Hanger



Two Doors Mounted Parallel in a Single Run of Track

Sliding Door Hangers

For doors weighing up to 100 lbs.

●Use

For very light sliding doors weighing up to 100 lbs.

●No. 0030 Hanger

For doors $7/8"$ to $1-1/4"$ thick.

Wheels, steel, $1-1/2"$ diameter.

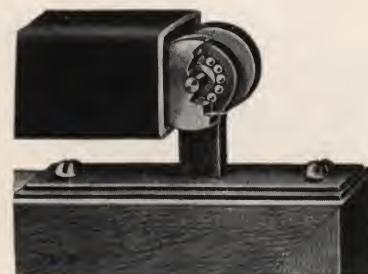
Ball bearings. Lateral adjustment.

Distance top of door to bottom of track, $5/8"$.

Packed one pair in box with screws.

Finish, cadmium plated.

Weight, per pair, 1 lb.



No. 0030

●No. 329 Hanger

For doors $1"$ or more in thickness weighing up to 100 lbs.

Wheels, steel, $1-1/2"$ diameter.

Frame, drop forged. Ball bearings. Top plate, $4-1/8"$ long, $1"$ wide. Adjustment, lateral and vertical.

Distance top of door to bottom of track: minimum $1"$; maximum $1-3/8"$.

Packed one pair in box with screws.

Finish, cadmium plated.

Weight, per pair, 2 lbs.



No. 329

●No. 429 Hanger

For doors $1"$ or more in thickness weighing up to 100 lbs.

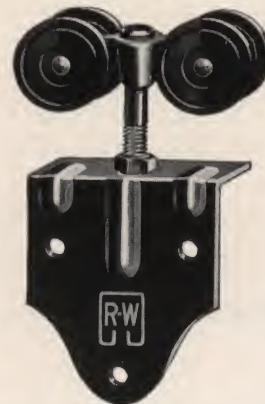
Wheels, steel, $1-1/2"$ diameter. Frame, drop forged.

Ball bearings. Apron, $3-1/2"$ long, $3"$ wide, $3/32"$ thick, punched for $1/4"$ bolts. Width horizontal flange, $1"$.

Distance top of door to bottom of track: minimum $1"$; maximum $1-3/8"$. Packed one pair in box with screws.

Finish: Trucks, cadmium plated; apron, gray enamel.

Weight, per pair, $2-1/4$ lbs.



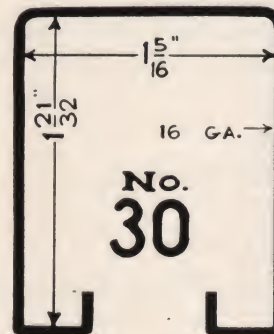
No. 429

●No. 30 Lock-Joint Trolley Track

No. 16 gauge steel, $1-5/16"$ x $1-21/32"$ inside dimensions.

Available in 4', 6', 8', and 10' lengths. Finish, gray enamel, regular. Galvanized available when specified.

Weight, per foot, 1 lb.



Full Size Cross-Section
No. 30 Trolley Track

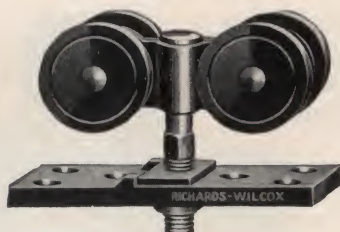
Brackets spaced not to exceed 24-inch centers.

Sliding Door Hangers

For doors weighing up to 200 lbs.



No. 126 Hanger



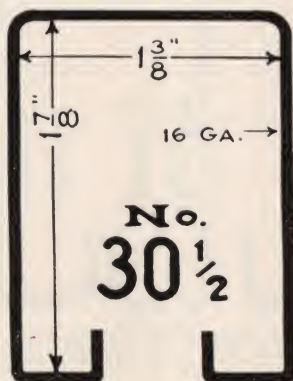
No. 314 Hanger



No. 1026 Hanger



No. 1314-1 Hanger



Full Size Cross-Section
R-W No. 30-1/2 Lock-
Joint Trolley Track.

●No. 126 Hanger

For doors 1" or more in thickness.
Wheels, steel, 1-3/4" diameter. Frames drop forged steel. Ball bearing. Lateral and vertical adjustment. Door plate, 1" wide, 4-1/8" long.
Finish, cadmium plated.
Packed one pair in box with screws.
Weight, per pair, 2-1/4 lbs.

●No. 314 Hanger

For doors 1-3/8" or more in thickness.
Wheels, steel, 1-3/4" diameter. Frames, steel. Roller bearing. Adjustment, vertical only. Plate, 1-3/8" wide, 4-7/8" long.
Finish, cadmium plated.
Packed one pair in box with screws.
Weight, per pair, 2-3/4 lbs.

●No. 1026 Hanger

For doors 1-3/8" or more in thickness.
Wheels, steel, 1-3/4" diameter. Frames, drop forged steel. Ball bearings. Lateral and vertical adjustment. Apron, 3" wide, 4-1/2" long, 5/64" thick.
Finish: Trucks, cadmium plated; aprons, gray enamel.
Packed one pair in box with bolts.
Weight, per pair, 3-1/4 lbs.

●No. 1314-1 Hanger

For doors 1-3/8"—1-3/4" thick.
Wheels, steel, 1-3/4" diameter. Frames, steel. Roller bearings. Lateral and vertical adjustment. Apron, 3" wide, 4-9/16" long.
Finish: Trucks, cadmium plated; aprons, gray enamel.
Packed one pair in box with bolts.
Weight, per pair, 4-3/4 lbs.

●No. 30-1/2 Lock-Joint Trolley Track

No. 16 gauge steel.
1-3/8" x 1-7/8" inside dimensions.
Stock lengths, 4', 6', 8', and 10' lengths.
Finish, gray enamel, regular. Galvanized available when specified.
Weight, per foot, 1-1/3 lbs.

●Track Brackets—Order Separately

No. 2 x 30-1/2 end bracket for each end of each run of track.
No. 39 x 30-1/2 lock-joint brackets for each joint.
No. 1 x 30-1/2 center brackets to complete spacing on not more than 24" centers.

No. 20 Trolley Track Door Hangers

For doors weighing up to 300 lbs.

●Head Clearance

Distance top of door to bottom of track, 7/8".

Bottom of track to center of hole in No. 2 bracket, 3-1/2".

●Use

For doors 1-3/4" to 2-1/4" thick, weighing up to 300 lbs.

Aprons must be let into doors of maximum thickness.

●Construction

Steel wheels, 2-1/8" diameter. Roller bearings.

Flexible joint. Lateral adjustment only. Apron, 6" long, 3-1/2" wide, 1/8" thick.

●Finish

Trucks, cadmium plated.

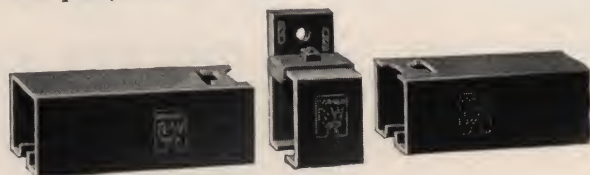
Aprons, gray enamel, regular. Galvanized available when specified.

●Packed

One pair in box with carriage and stove bolts.

●Weight

Per pair, 5 lbs.



Lock-Joint Track and Brackets

●Track (No. 31 Lock-Joint Trolley Track)

●Construction

No. 16 gauge steel.

●Dimensions

1-3/4" x 2-1/4" inside dimensions.

●Stock Lengths

4', 6', 8', 10', and 12' lengths.

●Finish

Gray enamel regular. Galvanized available when specified.

●Weight

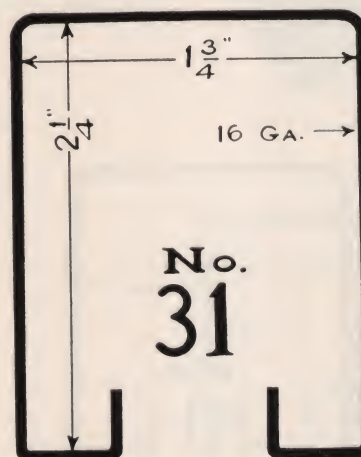
1-2/3 lbs. per foot.

●Track Brackets—Order Separately

No. 2 x 31 end brackets for each end of each run of track.

No. 39 x 31 lock-joint brackets for each joint.

No. 1 x 31 center brackets to complete spacing on not more than 30" centers.



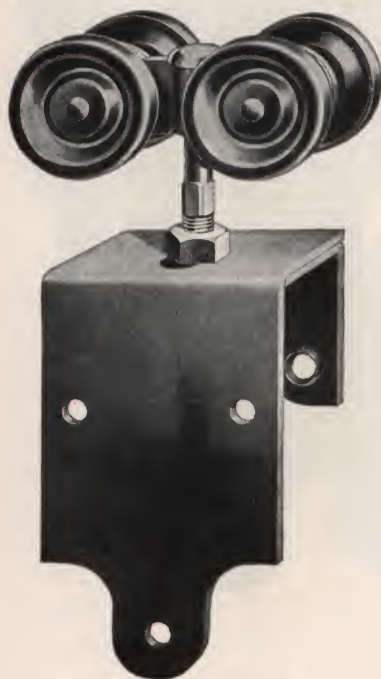
Full Size Cross-Section of
No. 31 Trolley Track.

For other types of track brackets, see pages 92-95.

No. 20-2 Trolley Track Door Hangers

For doors weighing up to 300 lbs.

For trucks (hangers less aprons) see page 77



- **Head Clearance**

Distance top of door to bottom of track: minimum, 1-3/16"; maximum, 2-5/16".

Bottom of track to center of hole in bracket, 3-1/2".

- **Use**

For doors 1-3/4" to 2-1/4" thick, weighing up to 300 lbs.

Aprons must be let into doors of maximum thickness.

- **Construction**

Wheels, steel, 2-1/8" diameter. Roller bearings.

Lateral and vertical adjustment. Apron: 6" long, 3-1/2" wide, 1/8" thick.

- **Finish**

Trucks, cadmium plated.

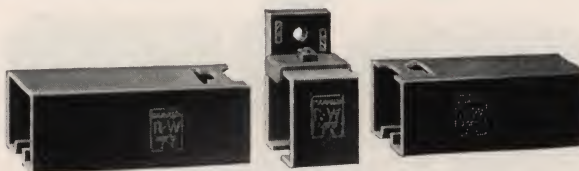
Aprons, gray enamel, regular. Galvanized available when specified.

- **Packed**

One pair in box with carriage and stove bolts.

- **Weight**

Per pair, 5-3/4 lbs.



Lock-Joint Track and Brackets

- **Track (No. 31 Lock-Joint Trolley Track)**

- **Construction**

No. 16 gauge steel.

- **Dimensions**

1-3/4" x 2-1/4" inside dimensions.

- **Stock Lengths**

4', 6', 8', 10', and 12' lengths.

- **Finish**

Gray enamel, regular.

Galvanized available when specified.

- **Weight**

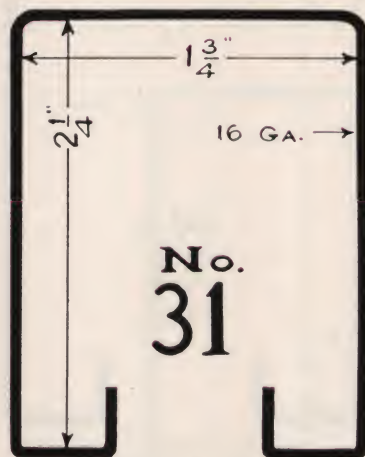
1-2/3 lbs. per foot.

- **Track Brackets—Order Separately**

No. 2 x 31 end brackets for each end of each run of track.

No. 39 x 31 lock-joint brackets for each joint.

No. 1 x 31 center bracket to complete spacing on not more than 30" centers.



Full Size Cross-Section of
No. 31 Trolley Track

No. 020-2



Trolley Track Door Hangers

For doors weighing up to 300 lbs.

•Head Clearance

Distance top of door to bottom of track: minimum, 1-3/16"; maximum, 2-5/16".

Bottom of track to center of hole in bracket, 3-1/2".

•Use

For doors 1-3/4" to 2-1/4" thick, weighing up to 300 lbs.

Aprons must be let into doors of maximum thickness.

•Construction

Steel wheels, 2-1/8" diameter. Permanently lubricated bronze bearings. Lateral and vertical adjustment. Apron: 6" long, 3-1/2" wide, 1/8" thick.

•Finish

Trucks, cadmium plated.

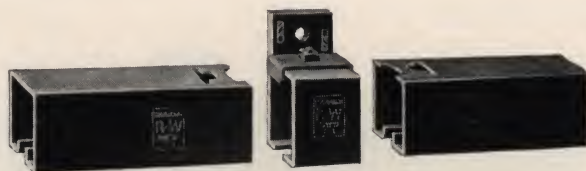
Apron, blue enamel, regular. Galvanized available when specified.

•Packed

One pair in box with carriage and stove bolts.

•Weight

Per pair, 5-1/4 lbs.



Lock-Joint Track and Brackets

•Track (No. 31 Lock-Joint Trolley Track)

•Construction

No. 16 gauge steel.

•Dimensions

1-3/4" x 2-1/4" inside dimensions.

•Stock Lengths

4', 6', 8', 10', and 12' lengths.

•Finish

Gray enamel, regular.

Galvanized available when specified.

•Weight

1-2/3 lbs. per foot.

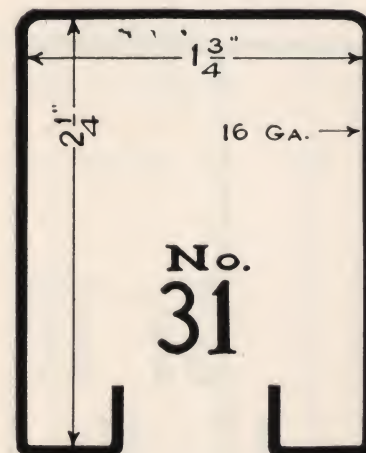
•Track Brackets—Order Separately

No. 2 x 31 end brackets for each end of each run of track.

No. 39 x 31 lock-joint brackets for each joint.

No. 1 x 31 center bracket to complete spacing on not more than 30" centers.

Weight each, 1 lb.



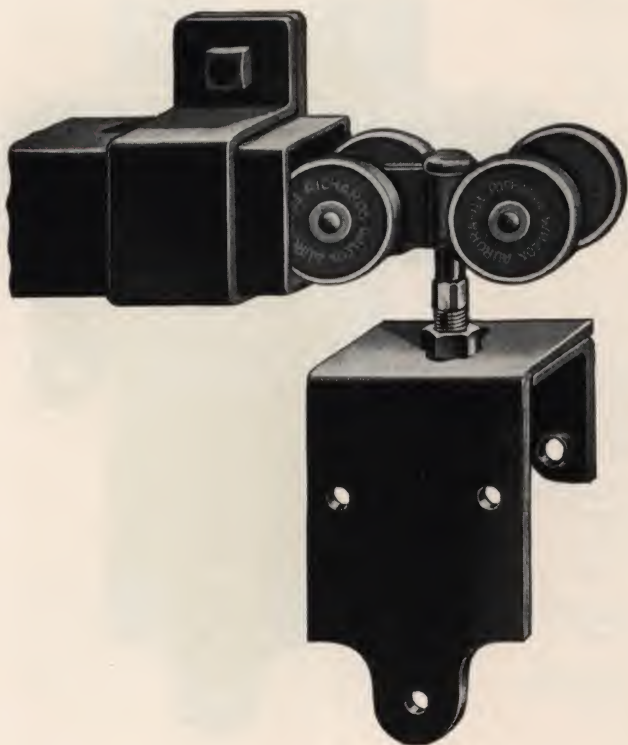
Full Size Cross-Section
No. 31 Track

For other types of track brackets, see pages 92-95.

No. 20 $\frac{1}{2}$ -B "Stayrite" Trolley Track Door Hangers

For doors weighing up to 300 lbs.

For trucks (hangers less aprons) see page 77



•Head Clearance

Distance top of door to bottom of track: minimum, 1-3/16"; maximum, 2-5/16".

Bottom of track to center of hole in bracket, 3-1/2".

•Use

For doors 1-3/4" to 2-1/4" thick, weighing up to 300 lbs.

Aprons must be let into doors of maximum thickness.

•Construction

Wheels, drop forged steel, 2-1/8" diameter.

Ball bearings. Frame, drop forged steel.

Lateral and vertical adjustment. Apron, 6" long, 3-1/2" wide, 1/8" thick.

•Finish

Trucks, cadmium plated.

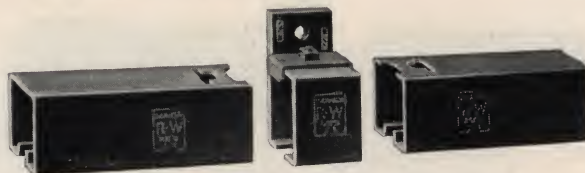
Aprons, gray enamel, regular. Galvanized available when specified.

•Packed

One pair in box with carriage and stove bolts.

•Weight

Per pair, 5-3/4 lbs.



Lock-Joint Track and Brackets

•Track (No. 31 Lock-Joint Trolley Track)

•Construction

No. 16 gauge steel.

•Dimensions

1-3/4" x 2-1/4" inside dimensions.

•Stock Lengths

4', 6', 8', 10', and 12' lengths.

•Finish

Gray enamel, regular. Galvanized available when specified.

•Weight

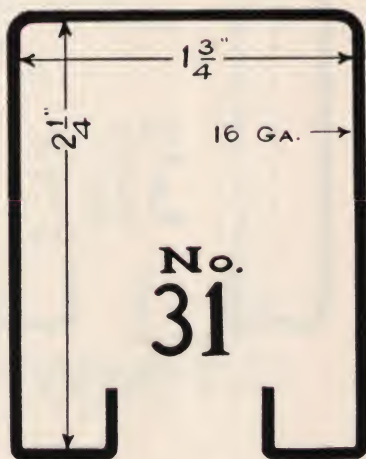
1-2/3 lbs. per foot.

•Track Brackets—Order Separately

No. 2 x 31 end brackets for each end of each run of track.

No. 39 x 31 lock-joint brackets for each joint.

No. 1 x 31 center brackets to complete spacing on not more than 30" centers.



Full Size Cross-Section of
No. 31 Trolley Track

For other types of track brackets, see pages 92-95.

No. 25 "Peerless" Industrial Door Hangers

For doors weighing up to 300 lbs.

For trucks (hangers less aprons) see page 77

•Made in Two Sizes

No. 1, for doors 1-3/4" to 2" thick.
No. 2, for doors 2-1/4" to 2-3/4" thick.

•Head Clearance

Distance top of door to bottom of track: minimum, 1-3/16"; maximum, 2-5/16".
Bottom of track to center of hole in bracket, 3-1/2".

•Use

For sliding doors 1-3/4" to 2-3/4" thick, weighing up to 300 lbs.
Aprons must be let into doors of maximum thickness.

•Construction

Wheels, steel, 2-1/8" diameter. Roller bearings.
Lateral and vertical adjustment. Apron, 7-1/2" long, 4" wide, 9/64" thick.

•Finish

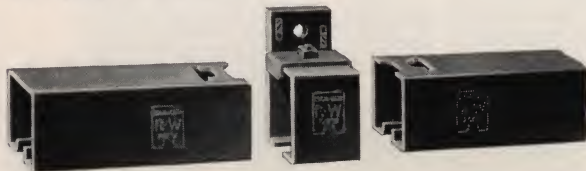
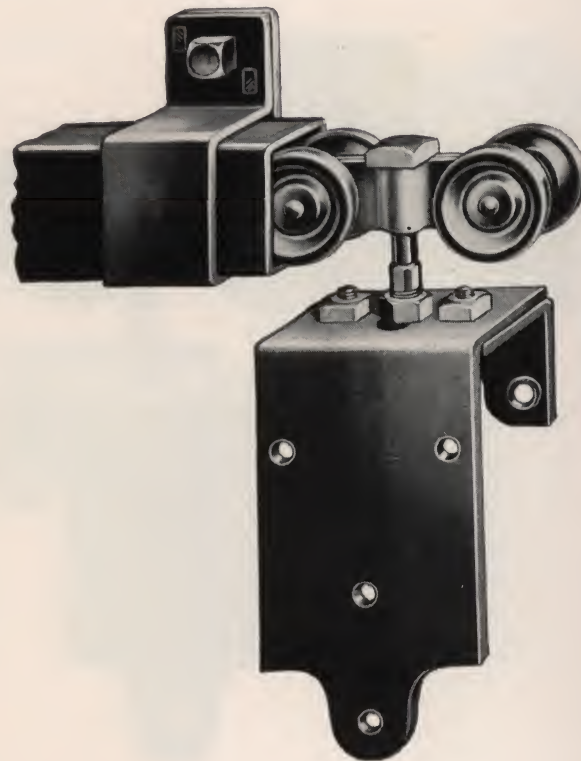
Trucks, cadmium plated.
Aprons, gray enamel, regular. Galvanized available when specified.

•Packed

One pair in box with carriage and stove bolts.

•Weight

Per pair, 7-1/2 lbs.



Lock-Joint Track and Brackets

•Track (No. 31 Lock-Joint Trolley Track)

•Construction

No. 16 gauge steel.

•Dimensions

1-3/4" x 2-1/4" inside dimensions.

•Stock Lengths

4', 6', 8', 10', and 12' lengths.

•Finish

Gray enamel, regular. Galvanized available when specified.

•Weight

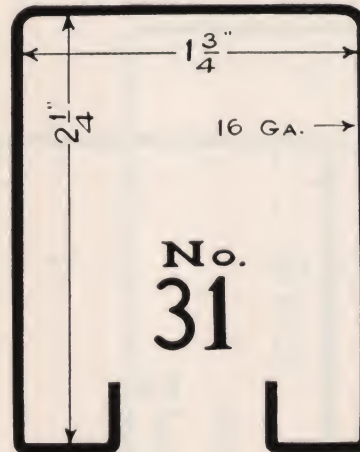
1-2/3 lbs. per foot.

•Track Brackets—Order Separately

No. 2 x 31 end brackets for each end of each run of track.

No. 39 x 31 lock-joint brackets for each joint.

No. 1 x 31 center brackets to complete spacing on not more than 30" centers.



Full Size Cross-Section of
No. 31 Trolley Track

For other types of track brackets, see pages 92-95.

No. 27 $\frac{1}{2}$ -B "Expansion" Industrial Door Hangers

For doors weighing up to 300 lbs.

For trucks (hangers less aprons) see page 77



•Made in Two Sizes

No. 1, for doors 1-3/4" to 2" thick.

No. 2, for doors 2-1/4" to 2-3/4" thick.

Both sizes available in either rigid frame (27-1/2B) or knuckle-joint frame (27-1/2BKJ).

•Head Clearance

Distance top of door to bottom of track: minimum, 1-3/16"; maximum, 2-5/16".

Bottom of track to center of hole in bracket, 3-1/2".

•Use

For doors 1-3/4" to 2-3/4" thick, weighing up to 300 lbs.

Aprons must be let into doors of maximum thickness.

•Construction.

Wheels, drop forged steel, 2-1/8" diameter. Ball bearings. Frame, drop forged steel, rigid or knuckle-joint. Lateral and vertical adjustment. Apron, 7-1/2" long, 4" wide, 9/64" thick.

•Finish

Trucks, cadmium plated.

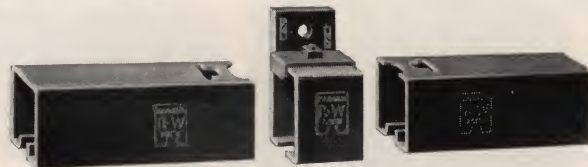
Aprons, gray enamel, regular. Galvanized available when specified.

•Packed

One pair in box with carriage and stove bolts.

•Weight

Per pair, 6-1/2 lbs.



Lock-Joint Track and Brackets

•Track (No. 31 Lock-Joint Trolley Track)

•Construction

No. 16 gauge steel.

•Dimensions

1-3/4" x 2-1/4" inside dimensions.

•Stock Lengths

4', 6', 8', 10', and 12' lengths.

•Finish

Gray enamel or galvanized.

•Weight

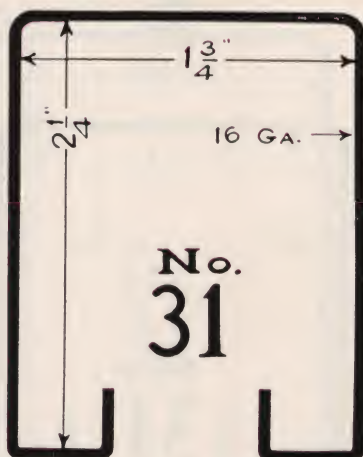
1-2/3 lbs. per foot.

•Track Brackets—Order Separately

No. 2 x 31 end brackets for each end of each run of track.

No. 39 x 31 lock-joint brackets for each joint.

No. 1 x 31 center brackets to complete spacing on not more than 30" centers.



Full Size Cross-Section of
No. 31 Trolley Track

For other types of track brackets, see pages 92-95.

Nos. 26 and 226 Door Hangers

For doors weighing up to 300 lbs.

●Head Clearance

Distance top of door to bottom of track:

No. 26, minimum, 1"; maximum, 2-3/8".

No. 226, minimum, 1"; maximum, 2-3/4".

●Use

No. 26, for doors 1-3/4" or more in thickness.

No. 226, for doors 1-3/8" or more in thickness.

For doors weighing up to 300 lbs.

●Construction

Wheels, drop forged steel, 2-1/8" in diameter.

Frames, drop forged steel.

Bearings, hardened balls.

Adjustment, No. 26, lateral and vertical. No. 226, vertical only.

No. 26 apron, 4" long, 3-1/2" wide, 3/16" thick.

No. 226 top plate, regular, 1-3/8" wide, 5" long. For thinner doors, specify plate, 1" wide, 3-1/2" long.

●Finish

No. 26 trucks, cadmium plated.

Aprons, gray enamel, regular.

No. 226 trucks and top plates, cadmium plated.

●Packed

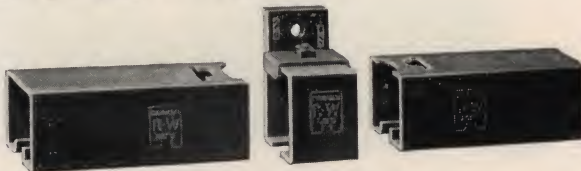
No. 26, one pair in box with bolts and screws.

No. 226, one pair in box with screws only.

●Weight

No. 26, per pair, 5-3/4 lbs.

No. 226, per pair, 4-1/4 lbs.



Lock-Joint Track and Brackets

●Track (No. 31 Lock Joint Trolley Track)

●Construction

No. 16 gauge steel.

●Dimensions

1-3/4" x 2-1/4" inside dimensions.

●Stock Lengths

4', 6', 8', 10', and 12' lengths.

●Finish

Gray enamel, regular. Galvanized available when specified.

●Weight

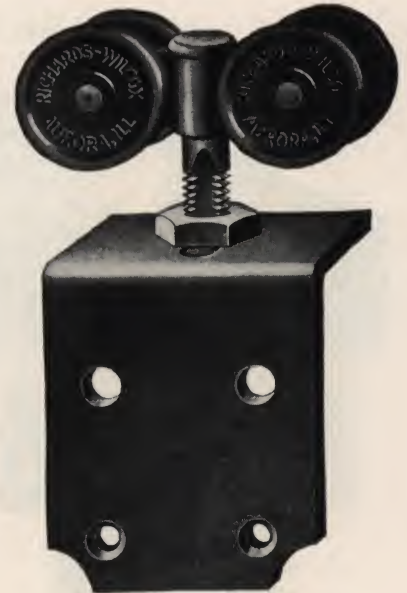
1-2/3 lbs. per foot.

●Track Brackets—Order Separately

No. 2 x 31 end brackets for each end of each run of track.

No. 39 x 31 lock-joint brackets for each joint.

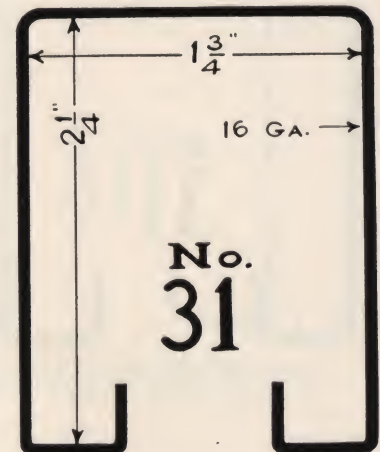
No. 1 x 31 center brackets to complete spacing on not more than 30" centers.



No. 26



No. 226

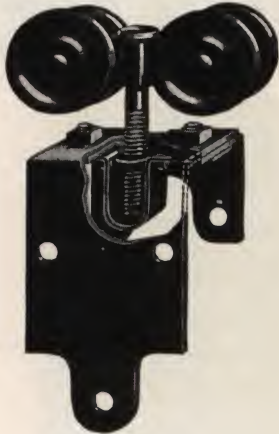


Full Size Cross-Section of
No. 31 Track

For other types of track brackets, see pages 92-95.

No. 223 Trolley Track Door Hangers

For doors weighing up to 300 lbs.



No. 223

●Head Clearance

Distance top of door to bottom of track: minimum, 1"; maximum, 1-3/4".

Bottom of track to center of hole in bracket, 3-1/2".

●Use

For doors 1-3/4" to 2-1/2" thick, weighing up to 300 lbs.

●Construction

Steel wheels, 2-1/8" diameter. Roller bearings. Adjustment, lateral and vertical.

Has a swing-out feature.

Apron, 6" long, 3-1/2" wide, 1/8" thick.

●Finish

Trucks, cadmium plated.

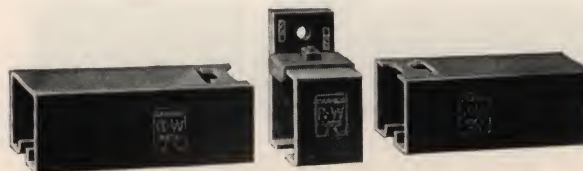
Aprons, gray enamel, regular. Galvanized available when specified.

●Packed

One pair in box with carriage and stove bolts.

●Weight

Per pair, 5-1/2 lbs.



Lock-Joint Track and Brackets

●Track (No. 31 Lock-Joint Trolley Track)

●Construction

No. 16 gauge steel.

●Dimensions

1-3/4" x 2-1/4" inside dimensions.

●Stock Lengths

4', 6', 8', 10', and 12' lengths.

●Finish

Gray enamel, regular. Galvanized available when specified.

●Weight

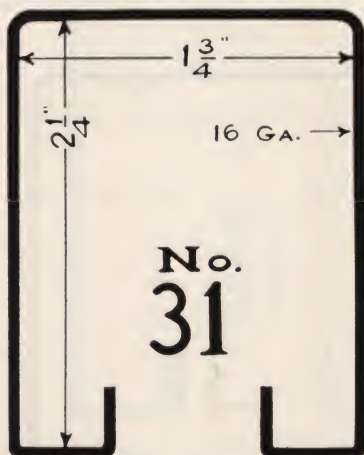
1-2/3 lbs. per foot.

●Track Brackets—Order Separately

No. 2 x 31 end brackets for each end of each run of track.

No. 39 x 31 lock-joint brackets for each joint.

No. 1 x 31 center brackets to complete spacing on not more than 30" centers.



Full Size Cross-Section of
No. 31 Trolley Track

No. 621 "Justaflex" Barn Door Hangers

For doors weighing up to 300 lbs.

•Head Clearance

Distance top of door to bottom of track: minimum, 2-3/8"; maximum, 3".

Bottom of track to center of hole in bracket, 3-1/2".

•Use

For doors 1-3/4" to 2-1/2" thick, weighing up to 300 lbs.

•Construction

Wheels, steel, 2-1/8" diameter. Bearings, roller.

Flexible joint. Lateral and vertical adjustment.

Apron, 6" long, 3-1/2" wide, 1/8" thick.

•Finish

Trucks, cadmium plated.

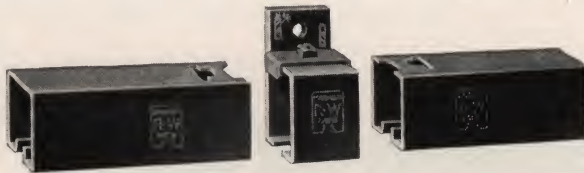
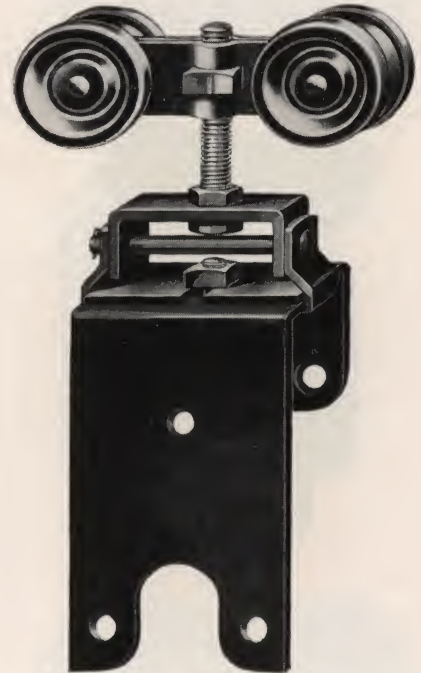
Aprons, gray enamel, regular. Galvanized available when specified.

•Packed

One pair in box with carriage and stove bolts.

•Weight

Per pair, 6-1/2 lbs.



Lock-Joint Track and Brackets

•Track (No. 31 Lock-Joint Trolley Track)

•Construction

No. 16 gauge steel.

•Dimensions

1-3/4" x 2-1/4" inside dimensions.

•Stock Lengths

4', 6', 8', 10', and 12' lengths.

•Finish

Gray enamel, regular. Galvanized available when specified.

•Weight

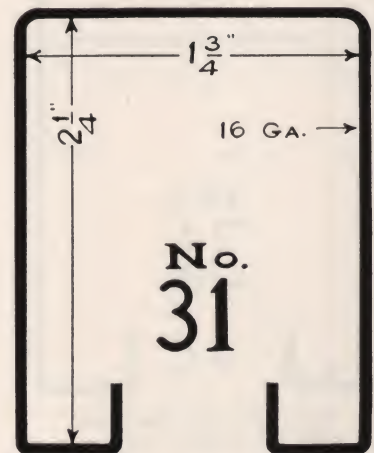
Per foot, 1-2/3 lbs.

•Track Brackets—Order Separately

No. 2 x 31 end brackets for each end of each run of track.

No. 39 x 31 lock-joint brackets for each joint.

No. 1 x 31 center brackets to complete spacing on not more than 30" centers.

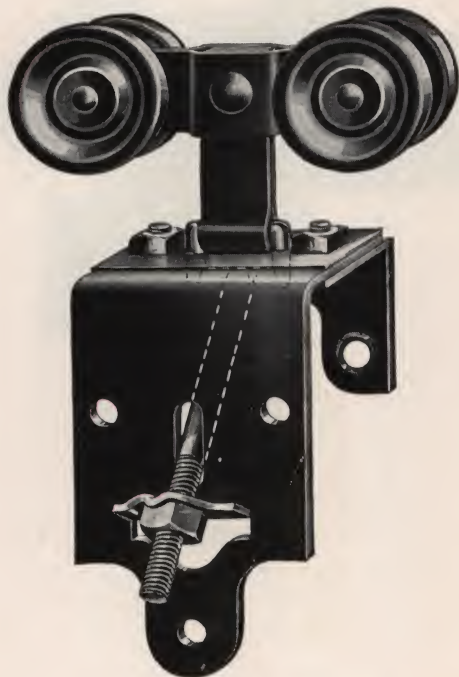


Full Size Cross-Section of
No. 31 Trolley Track

For other types of track brackets, see pages 92-95.

No. 323 Barn Door Hangers

For doors weighing up to 300 lbs.



Locking Nut Through Apron Front for Easy Adjustment



Full Size Cross-Section of No. 31 Trolley Track

●Head Clearance

Distance top of door to bottom of track: minimum, 3/4"; maximum, 1-1/2".

Bottom of track to center of hole in bracket, 3-1/2".

●Use

For doors 1-3/4" to 2-1/4" thick, weighing up to 300 lbs.

●Construction

Wheels, steel, 2-1/8" diameter. Bearings, roller.

Apron, 6" long, 3-1/2" wide, 1/8" thick.

Adjustment, lateral and vertical.

Has a swing-out feature.

●Finish

Trucks, cadmium plated.

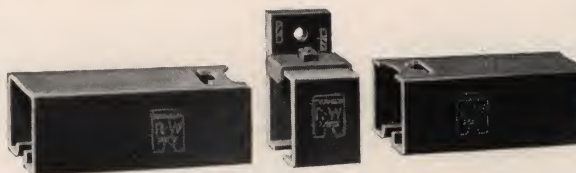
Aprons, gray enamel, regular. Galvanized available when specified.

●Packed

One pair in box with carriage and stove bolts.

●Weight

Per pair, 5-1/2 lbs.



Lock-Joint Track and Brackets

●Track (No. 31 Lock-Joint Trolley Track)

●Construction

No. 16 gauge steel.

●Dimensions

1-3/4" x 2-1/4" inside dimensions.

●Stock Lengths

4', 6', 8', 10', and 12' lengths.

●Finish

Gray enamel, regular. Galvanized available when specified.

●Weight

Per foot, 1-2/3 lbs.

●Track Brackets—Order Separately

No. 2 x 31 end brackets for each end of each run of track.

No. 39 x 31 lock-joint brackets for each joint.

No. 1 x 31 center brackets to complete spacing on not more than 30" centers.

For other types of track brackets, see pages 92-95.

Nos. 421 and 423-35 Barn Door Hangers

For doors weighing up to 300 lbs.

No. 421

●Head Clearance

Distance top of door to bottom of track, 1-1/8".
Bottom of track to center of hole in bracket, 3-1/2".

●Use

For use with No. 35 track only (see opposite page).
For doors 1-3/4" to 2-1/2" thick, weighing up to 300 lbs.

●Construction

Wheels, steel, 2-1/4" diameter.
Bearings, roller.
Flexible joint.
Lateral adjustment.
Apron, 6" long, 3-1/2" wide, 1/8" thick.

●Finish

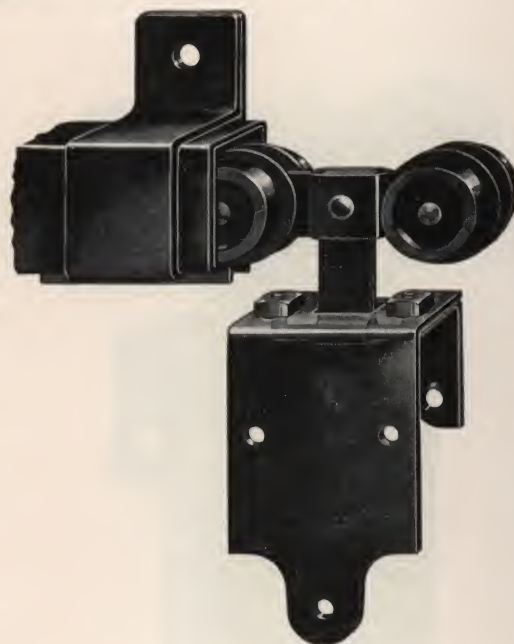
Trucks, cadmium plated.
Aprons, gray enamel, regular. Galvanized available when specified.

●Packed

One pair in box with carriage and stove bolts.

●Weight

Per pair, 5-3/4 lbs.



No. 421

No. 423-35

●Head Clearance

Distance top of door to bottom of track: minimum, 1-1/2"; maximum, 2-1/4".
Bottom of track to center of hole in bracket, 3-1/2".

●Use

For use with No. 35 track only (see opposite page).
For doors 1-3/4" to 2-1/2" thick weighing up to 300 lbs.
Aprons must be let into doors of maximum thickness.

●Construction

Wheels, steel, 2-1/4" diameter.
Bearings, roller.
Flexible joint.
Lateral and vertical adjustment.
Apron, 6" long, 3-1/2" wide, 1/8" thick.

●Finish

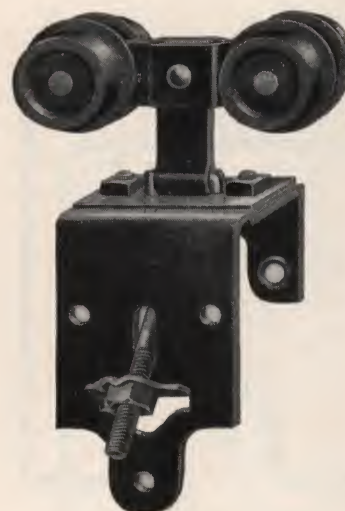
Trucks, cadmium plated.
Aprons, gray enamel, regular. Galvanized available when specified.

●Packed

One pair in box with carriage and stove bolts.

●Weight

Per pair, 6 lbs.



No. 423-35

Locking Nut Through
Apron Front for Easy
Adjustment

No. 721 "Flexadjust" Barn Door Hangers

For doors weighing up to 300 lbs.



•Head Clearance

Distance top of door to bottom of track: minimum, 2-5/8"; maximum, 3-1/2".

Bottom of track to center of hole in bracket, 3-1/2".

•Use

For doors 1-3/4" to 2-1/2" thick, weighing up to 300 lbs.

Aprons must be let into doors of maximum thickness.

•Construction

Wheels, steel, 2-1/4" diameter. Bearings, roller. Flexible joint. Lateral and vertical adjustment. Apron, 6" long, 3-1/2" wide, 1/8" thick.

•Finish

Trucks, cadmium plated.

Aprons, gray enamel, regular. Galvanized available when specified.

•Packed

One pair in box with carriage and stove bolts.

•Weight

Per pair, 7-1/2 lbs.

Lock-Joint Track and Brackets

•Track (No. 35 Lock-Joint Trolley Track)

•Construction

No. 14 gauge steel.

•Dimensions

1-23/32" x 2-7/32" inside dimensions.

•Stock Lengths

4', 6', 8', and 10', lengths.

•Finish

Gray enamel, regular. Galvanized available when specified.

•Weight

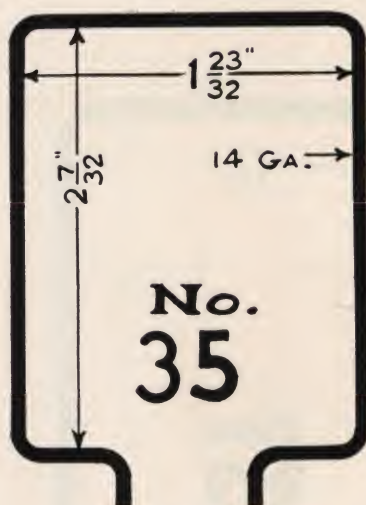
Per foot, 2-1/4 lbs.

•Track Brackets—Order Separately

No. 2 x 35 end brackets for each end of each run of track.

No. 39 x 35 lock-joint brackets for each joint.

No. 1 x 35 center brackets to complete spacing on not more than 30" centers.



Full Size Cross-Section
of No. 35 Trolley Track

For other types of track brackets, see pages 92-95.

No. 28V "Premium" Industrial Door Hangers

For doors weighing up to 400 lbs.

For trucks (hangers less aprons) see page 77

•Made in Two Sizes

No. 1, for doors 1-3/4" to 2" thick.

No. 2, for doors 2-1/4" to 2-3/4" thick.

•Head Clearance

Distance top of door to bottom of track: minimum, 1-13/16"; maximum, 2-5/16".

Bottom of track to center of hole in bracket, 4-1/4".

•Use

For doors 1-3/4" to 2-3/4" thick (see above), weighing up to 400 lbs.

•Construction

Wheels, steel, 2-1/2" diameter. Roller bearings.

Lateral and vertical adjustment. Apron, 7-1/2" long, 4" wide, 9/64" thick.

•Finish

Trucks, cadmium plated.

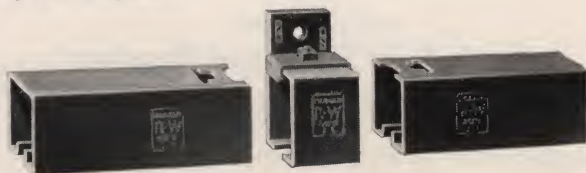
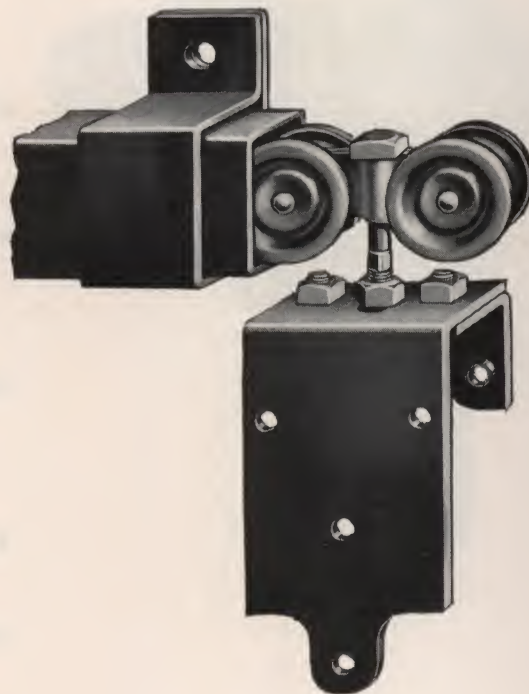
Aprons, gray enamel, regular. Galvanized available when specified.

•Packed

One pair in box with carriage and stove bolts.

•Weight

Per pair, 8-3/4 lbs.



Lock-Joint Track and Brackets

•Track (No. 32 Lock-Joint Trolley Track)

•Construction

No. 14 gauge steel.

•Dimensions

1-7/8" x 2-13/16" inside dimensions.

•Stock Lengths

4', 6', 8', and 10', lengths.

•Finish

Gray enamel, regular. Galvanized available when specified.

•Weight

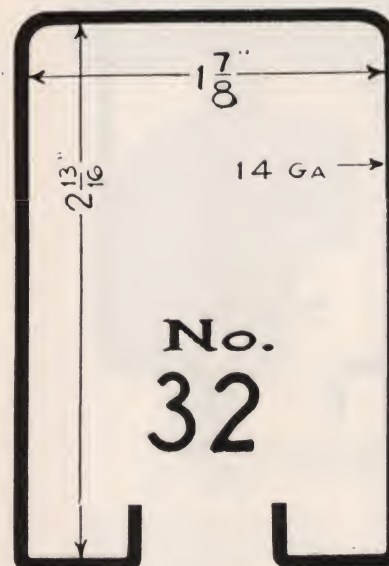
Per foot, 2-1/2 lbs.

•Track Brackets—Order Separately

No. 2 x 32 end brackets for each end of each run of track.

No. 39 x 32 lock-joint brackets for each joint.

No. 1 x 32 center brackets to complete spacing on not more than 24" centers.



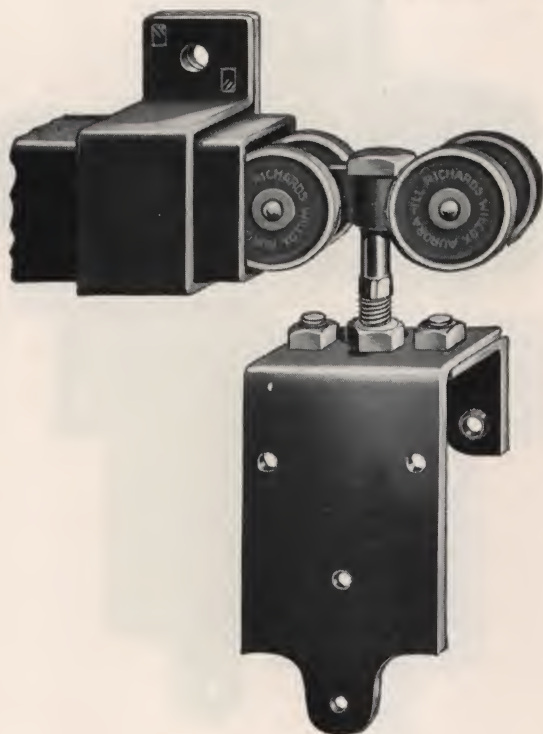
Full Size Cross-Section
of No. 32 Trolley Track

For other types of track brackets, see pages 92-95.

No. 28 $\frac{1}{2}$ -B "Supreme" Industrial Door Hangers

For doors weighing up to 400 lbs.

For trucks (hangers less aprons) see page 77



•Made in Two Sizes

No. 1, for doors 1-3/4" to 2" thick.

No. 2, for doors 2-1/4" to 2-3/4" thick.

Both sizes available in either rigid frame (28-1/2B) or knuckle-joint frame (28-1/2BKJ).

•Head Clearance

Distance top of door to bottom of track: minimum, 1-3/16"; maximum, 2-5/16".

Bottom of track to center of hole in bracket, 4-1/4".

•Use

For doors 1-3/4" to 2-3/4" thick (see above), weighing up to 400 lbs. Aprons must be let into doors of maximum thickness.

•Construction

Wheels, drop forged steel, 2-1/2" diameter. Ball bearings. Lateral and vertical adjustment. Apron, 7-1/2" long, 4" wide, 9/64" thick.

•Finish

Trucks, cadmium plated.

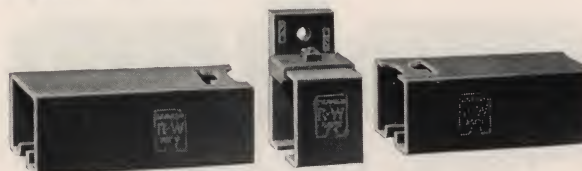
Aprons, gray enamel, regular. Galvanized available when specified.

•Packed

One pair in box with carriage and stove bolts.

•Weight

Per pair, 9-3/4 lbs.



Lock-Joint Track and Brackets

•Track (No. 32 Lock-Joint Trolley Track)

•Construction

No. 14 gauge steel.

•Dimensions

1-7/8" x 2-13/16" inside dimensions.

•Stock Lengths

4', 6', 8', and 10' lengths.

•Finish

Gray enamel, regular. Galvanized available when specified.

•Weight

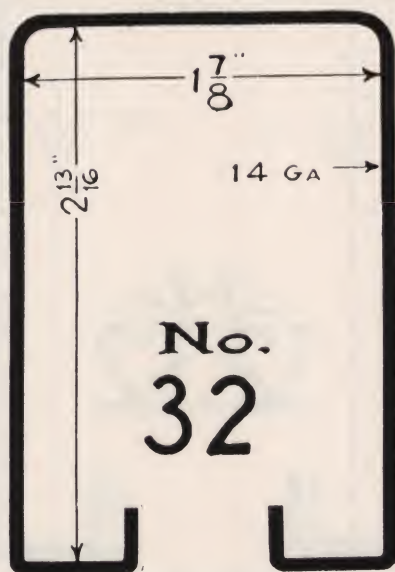
Per foot, 2-1/2 lbs.

•Track Brackets—Order Separately

No. 2 x 32 end brackets for each end of each run of track.

No. 39 x 32 lock-joint brackets for each joint.

No. 1 x 32 center brackets to complete spacing on not more than 24" centers.



Full Size Cross-Section
of No. 32 Trolley Track

For other types of track brackets, see pages 92-95.

No. 29V "Economy" Industrial Door Hangers

For doors weighing up to 600 lbs.

For trucks (hangers less aprons) see page 77

●**Made in Two Sizes**

No. 1, for doors 1-3/4" to 2" thick.

No. 2, for doors 2-1/4" to 2-3/4" thick.

●**Head Clearance**

Distance top of door to bottom of track: minimum, 1-1/8"; maximum, 2-1/2".

Bottom of track to center of hole in bracket, 4-11/16".

●**Use**

For doors 1-3/4" to 2-3/4" thick (see above), weighing up to 600 lbs.

Aprons must be let into doors of maximum thickness.

●**Construction**

Wheels, steel, 3" diameter. Roller bearings.

Lateral and vertical adjustment. Apron: 7-1/2" long, 4" wide, 9/64" thick.

●**Finish**

Trucks, cadmium plated.

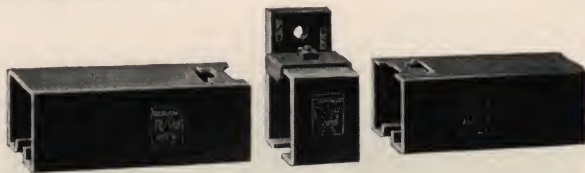
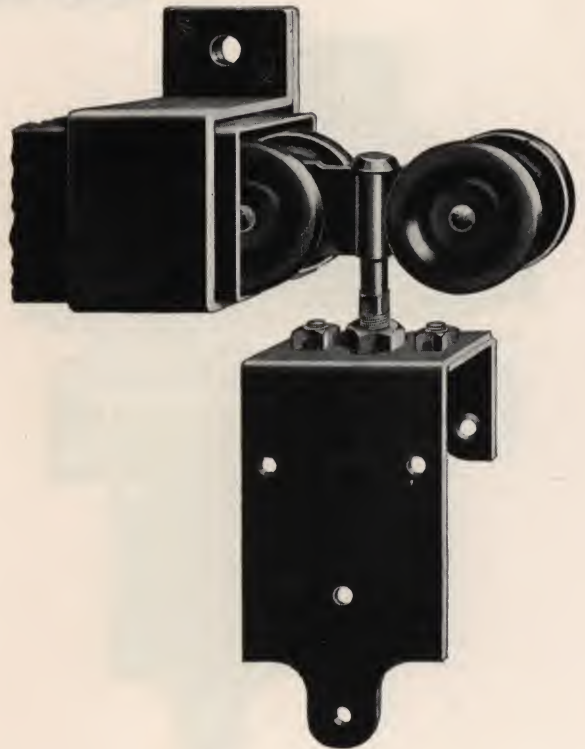
Aprons, gray enamel, regular. Galvanized available when specified.

●**Packed**

One pair in box with carriage and stove bolts.

●**Weight**

Per pair, 11 lbs.



Lock-Joint Track and Brackets

●**Track (No. 232 Lock-Joint Trolley Track)**

●**Construction**

No. 14 gauge steel.

●**Dimensions**

2-7/32" x 3-1/4" inside dimensions.

●**Stock Lengths**

4', 6', 8', and 10' lengths.

●**Finish**

Gray enamel, regular. Galvanized available when specified.

●**Weight**

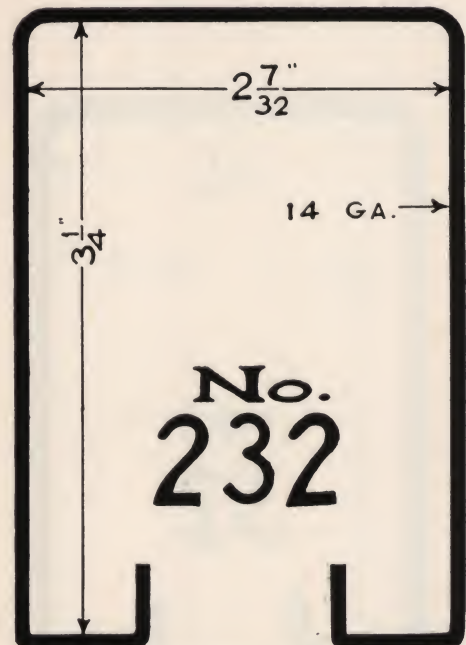
Per foot, 2-3/4 lbs.

●**Track Brackets—Order Separately**

No. 2 x 232 end brackets for each end of each run of track.

No. 39 x 232 lock-joint brackets for each joint.

No. 1 x 232 center brackets to complete spacing on not more than 24" centers.



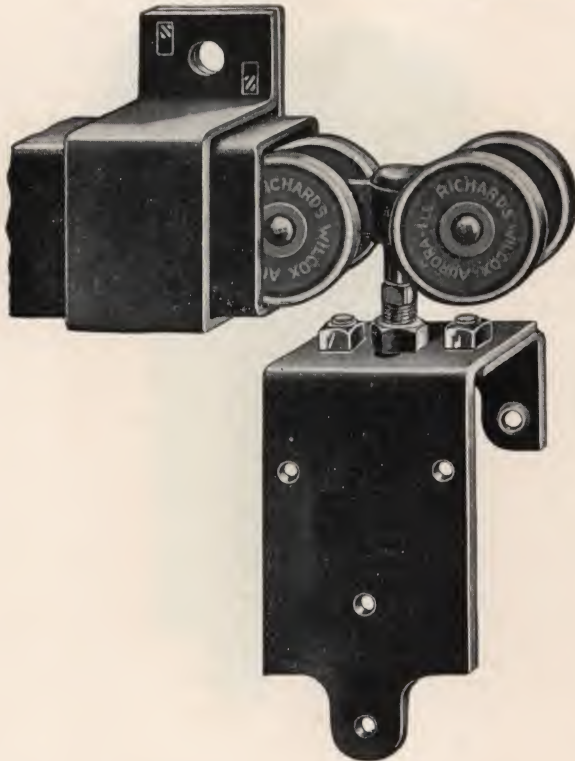
Full Size Cross-Section
of No. 232 Trolley Track

For other types of track brackets, see pages 92-95.

No. 29½-B "No Fault" Industrial Door Hangers

For doors weighing up to 600 lbs.

For trucks (hangers less aprons) see page 77



•Made in Two Sizes

No. 1, for doors 1-3/4" to 2" thick.

No. 2, for doors 2-1/4" to 2-3/4" thick.

Both sizes available in either rigid frame (29-1/2B) or knuckle-joint frame (29-1/2BKJ).

•Head Clearance

Distance top of door to bottom of track: minimum, 1-1/8"; maximum, 2".

Bottom of track to center of hole in bracket, 4-11/16".

•Use

For doors 1-3/4" to 2-3/4" thick (see above), weighing up to 600 lbs. Aprons must be let into doors of maximum thickness.

•Construction

Wheels, drop forged steel, 3" diameter. Ball bearings.

Frame, rigid or knuckle-joint (please specify). Lateral and vertical adjustment. Apron, 7-1/2" long, 4" wide, 9/64" thick.

•Finish

Trucks, cadmium plated.

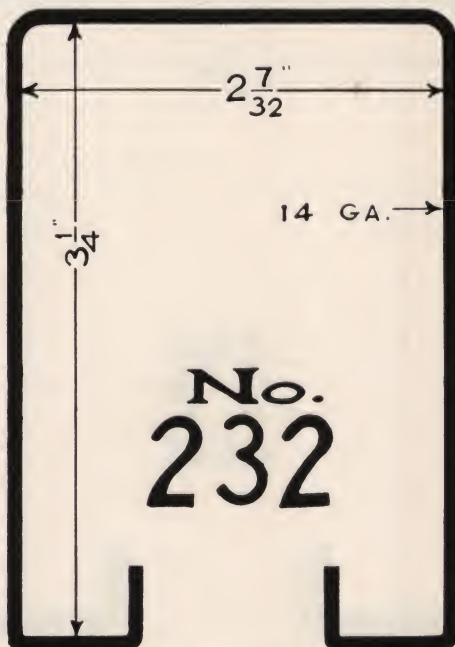
Aprons, gray enamel, regular. Galvanized available when specified.

•Packed

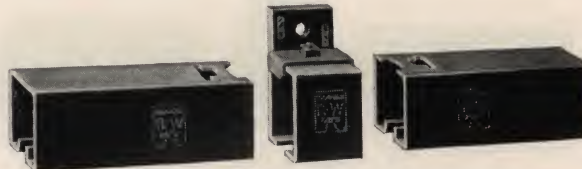
One pair in box with carriage and stove bolts.

•Weight

Per pair, 11-3/4 lbs.



Full Size Cross-Section
of No. 232 Trolley Track



Lock-Joint Track and Brackets

•Track (No. 232 Lock-Joint Trolley Track)

•Construction

No. 14 gauge steel.

•Dimensions

2-7/32" x 3-1/4" inside dimensions.

•Stock Lengths

4', 6', 8', and 10', lengths.

•Finish

Gray enamel, regular. Galvanized available when specified.

•Weight

Per foot, 2-3/4 lbs.

•Track Brackets—Order Separately

No. 2 x 232 end brackets for each end of each run of track.

No. 39 x 232 lock-joint brackets for each joint.

No. 1 x 232 center brackets to complete spacing on not more than 24" centers.

For other types of track brackets, see pages 92-95.

No. 121 "Sampson" Industrial Door Hangers

For doors weighing up to 800 lbs.

For trucks (hangers less aprons) see page 77

● **Made in Two Sizes.**

No. 1, for doors 1-3/4" to 2" thick.

No. 2, for doors 2-1/4" to 3" thick.

● **Head Clearance**

Distance top of door to bottom of track: minimum, 1-1/4"; maximum, 2-3/8".

Bottom of track to center of hole in bracket, 5".

● **Use**

For doors 1-3/4" to 3" thick (see above), weighing up to 800 lbs. Aprons must be let into doors of maximum thickness.

● **Construction**

Wheels, steel, 3" diameter. Roller bearings. Lateral and vertical adjustment. Apron: 9-1/2" long, 4" wide, 3/16" thick.

● **Finish**

Trucks, cadmium plated.

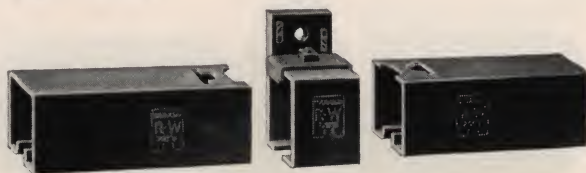
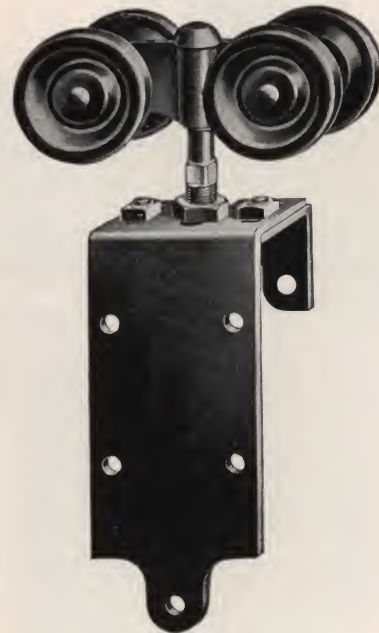
Aprons, gray enamel, regular. Galvanized available when specified.

● **Packed**

One pair hangers with carriage and stove bolts in a box.

● **Weight**

Per pair, 18 lbs.



Lock-Joint Track and Brackets

● **Track (No. 33 Lock-Joint Trolley Track)**

● **Construction**

No. 13 gauge steel.

● **Dimensions**

2-5/8" x 3-1/4" inside dimensions.

● **Stock Lengths**

4', 6', 8', and 10', lengths.

● **Finish**

Gray enamel, regular. Galvanized available when specified.

● **Weight**

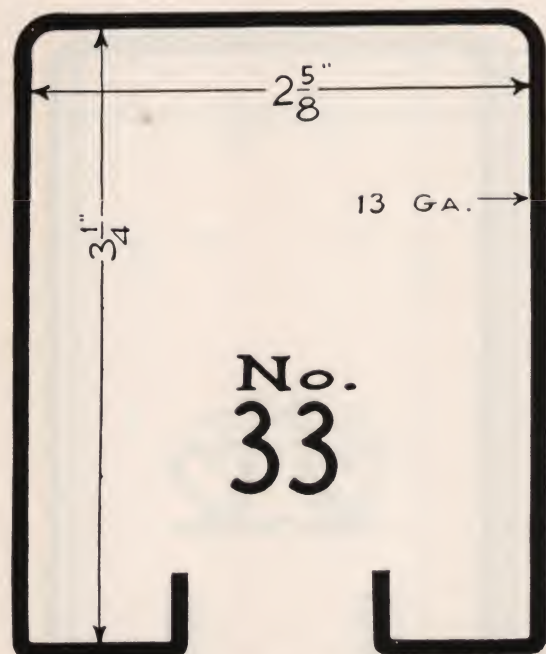
Per foot, 4 lbs.

● **Track Brackets—Order Separately**

No. 2 x 33 end brackets for each end of each run of track.

No. 39 x 33 lock-joint brackets for each joint.

No. 1 x 33 center brackets to complete spacing on not more than 24" centers.



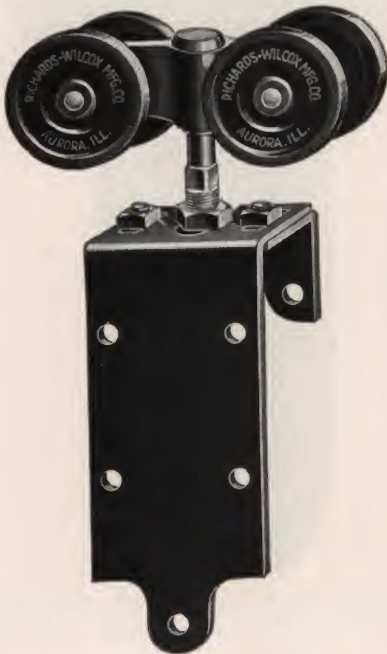
Full Size Cross-Section of
No. 33 Trolley Track

For other types of track brackets, see pages 92-95.

No. 123¹/₂-B "Victor" Industrial Door Hangers

For doors weighing up to 800 lbs.

For trucks (hangers less aprons) see page 77



● **Made in Two Sizes**

No. 1, for doors 1-3/4" to 2" thick.

No. 2, for doors 2-1/4" to 3" thick.

Both sizes available in either rigid frame (123-1/2B) or knuckle-joint frame (123-1/2BKJ).

● **Head Clearance**

Distance top of door to bottom of track: minimum, 1-1/2"; maximum, 2-5/8".

Bottom of track to center of hole in bracket, 5".

● **Use**

For doors 1-3/4" to 3" thick (see above) weighing up to 800 lbs.

● **Construction**

Wheels, drop forged steel, 3" diameter. Ball bearings.

Frame, rigid or knuckle-joint, as specified. Lateral and vertical adjustment. Apron, 9-1/2" long, 4" wide, 3/16" thick.

● **Finish**

Trucks, cadmium plated.

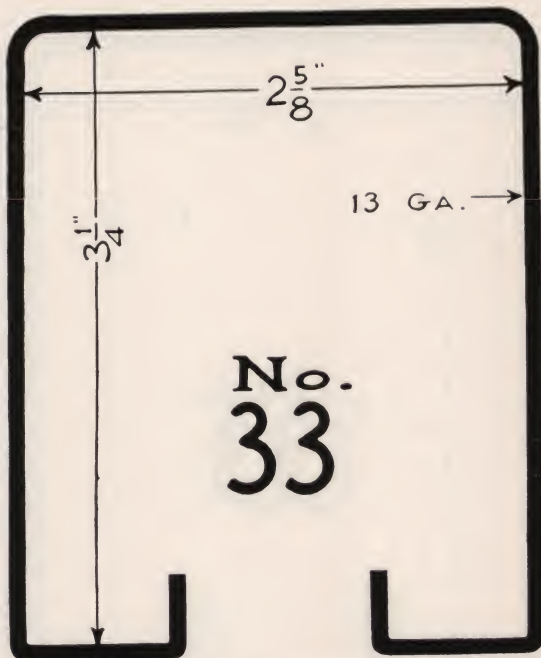
Aprons, gray enamel, regular. Galvanized available when specified.

● **Packed**

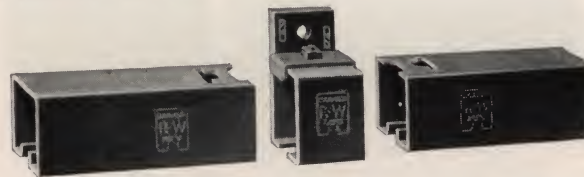
One pair in box with carriage and stove bolts.

● **Weight**

Per pair, 16-3/4 lbs.



Full Size Cross-Section of
No. 33 Trolley Track



Lock-Joint Track and Brackets

● **Track (No. 33 Lock-Joint Trolley Track)**

● **Construction**

No. 13 gauge steel.

● **Dimensions**

2-5/8" x 3-1/4" inside dimensions.

● **Stock Lengths**

4', 6', 8', and 10' lengths.

● **Finish**

Gray enamel, regular. Galvanized available when specified.

● **Weight**

Per foot, 4 lbs.

● **Track Brackets—Order Separately**

No. 2 x 33 end brackets for each end of each run of track.

No. 39 x 33 lock-joint brackets for each joint.

No. 1 x 33 center brackets to complete spacing on not more than 24" centers.

For other types of track brackets, see pages 92-95.

No. 150 "Jumbo" Wharf and Industrial Door Hangers

For doors weighing up to 800 lbs.

● **Made in Two Sizes**

No. 1, for doors 1-3/4" to 2" thick.

No. 2, for doors 2-1/4" to 3" thick.

● **Head Clearance**

Distance top of door to bottom of track: minimum, 1-1/4"; maximum, 2-3/8".

Bottom of track to center of hole in bracket, 5".

● **Use**

For doors 1-3/4" to 3" thick (see above) weighing up to 800 lbs. Aprons must be let into doors of maximum thickness.

● **Construction**

Wheels, steel, 3" diameter. Roller bearings. Lateral and vertical adjustment. Apron, 9-1/2" long, 4" wide, 3/16" thick.

● **Finish**

Trucks, cadmium plated.

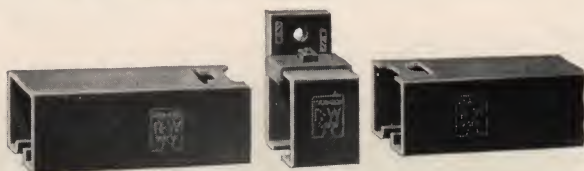
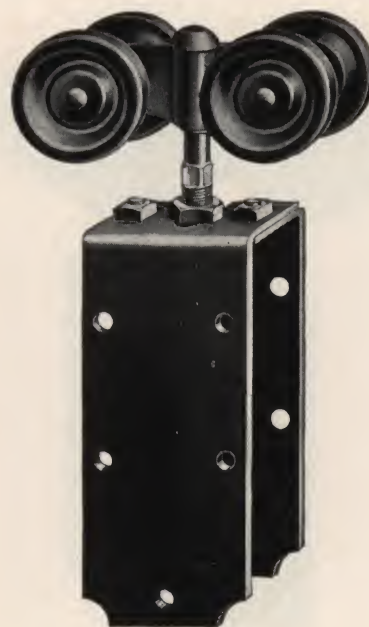
Aprons, gray enamel, regular. Galvanized available when specified.

● **Packed**

One pair in box with carriage and stove bolts.

● **Weight**

Per pair, 18-3/4 lbs.



Lock-Joint Track and Brackets

● **Track (No. 33 Lock-Joint Trolley Track)**

● **Construction**

No. 13 gauge steel.

● **Dimensions**

2-5/8" x 3-1/4" inside dimensions.

● **Stock Lengths**

4', 6', 8', and 10' lengths.

● **Finish**

Gray enamel, regular. Galvanized available when specified.

● **Weight**

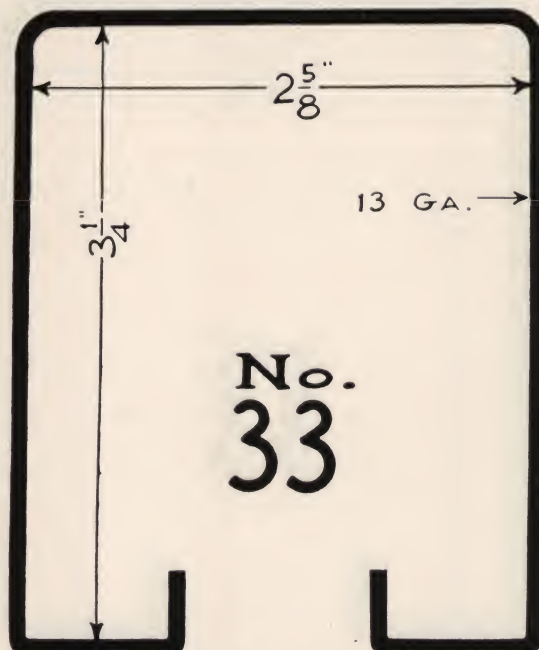
Per foot, 4 lbs.

● **Track Brackets—Order Separately**

No. 2 x 33 end brackets for each end of each run of track.

No. 39 x 33 lock-joint brackets for each joint.

No. 1 x 33 center brackets to complete spacing on not more than 24" centers.

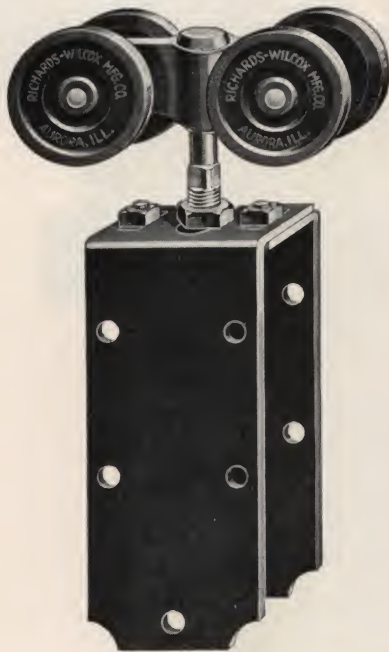


Full Size Cross-Section of
No. 33 Trolley Track

For other types of track brackets, see pages 92-95.

No. 150 $\frac{1}{2}$ -B "Over-All" Wharf and Industrial Door Hangers

For doors weighing up to 800 lbs.



Both Sizes Available in Either Rigid Frame 150 $\frac{1}{2}$ B or Knuckle Joint Frame 150 $\frac{1}{2}$ BKJ

•Made in Two Sizes

No. 1, for doors 1-3/4" to 2" thick.

No. 2, for doors 2-1/4" to 3" thick.

•Head Clearance

Distance top of door to bottom of track: minimum, 1-1/2"; maximum, 2-5/8".

Bottom of track to center of hole in bracket, 5".

•Use

For doors 1-3/4" to 3" thick (see above) weighing up to 800 lbs. Aprons must be let into doors of maximum thickness.

•Construction

Wheels, drop forged steel, 3" diameter. Ball bearings.

Frame, rigid or knuckle-joint, as specified. Lateral and vertical adjustment. Apron, 9-1/2" long, 4" wide, 3/16" thick.

•Finish

Trucks, cadmium plated.

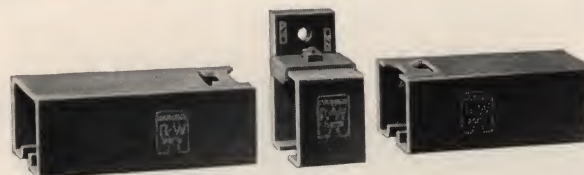
Aprons, gray enamel, regular. Galvanized available when specified.

•Packed

One pair in box with carriage and stove bolts.

•Weight

Per pair, 20-1/2 lbs.



Lock-Joint Track and Brackets

•Track (No. 33 Lock-Joint Trolley Track)

•Construction

No. 13 gauge steel.

•Dimensions

2-5/8" x 3-1/4" inside dimensions.

•Stock Lengths

4', 6', 8', and 10' lengths.

•Finish

Gray enamel, regular. Galvanized available when specified.

•Weight

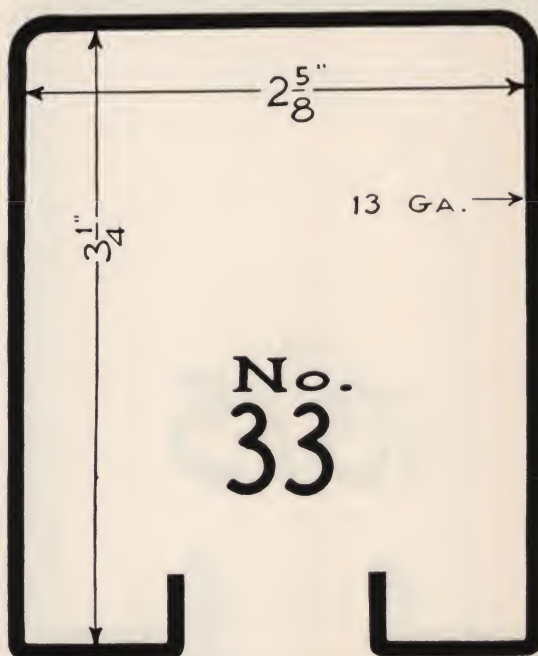
Per foot, 4 lbs.

•Track Brackets—Order Separately

No. 2 x 33 end brackets for each end of each run of track.

No. 39 x 33 lock-joint brackets for each joint.

No. 1 x 33 center brackets to complete spacing on not more than 24" centers.



Full Size Cross-Section of No. 33 Trolley Track

For other types of track brackets, see pages 92-95.

No. 286 Swivel Hanger

For doors weighing approximately 1,000 lbs.

•Made in Two Sizes

No. 1, for doors 1-3/4" to 2" thick.
No. 2, for doors 2-1/4" to 3" thick.

•Head Clearance

Distance top of door to bottom of track: minimum, 4-7/8";
maximum, 6-5/8".
Bottom of track to center of hole in bracket, 5".

•Use

For straight and curved tracks.
For wood doors specify hangers with aprons.
For steel doors specify trucks only.
For doors 1-3/4" to 3" thick (see above).

•Construction

Wheels, drop forged steel, 3" diameter.
Frame, drop forgings with heavy steel connecting bar.
Ball bearings. Lateral and vertical adjustment.
Apron, 9-1/2" long, 4" wide, 3/16" thick.

•Finish

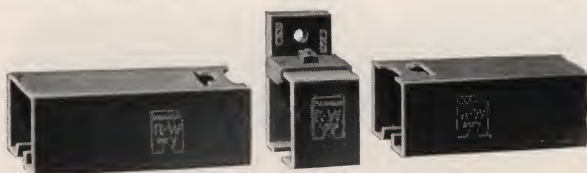
Trucks, cadmium plated.
Aprons and connecting bar, gray enamel, regular. Galvanized available when specified.

•Packed

In bulk, less bolts.

•Weight

Hangers, per pair, 26 lbs.
Trucks, per pair, 15 lbs.



Lock-Joint Track and Brackets

•Track (No. 375 Lock-Joint Trolley Track)

•Construction

No. 10 gauge steel.

•Dimensions

2-5/8" x 3-1/4" inside dimensions.

•Stock Lengths

4', 6', 8', and 10' lengths.

•Finish

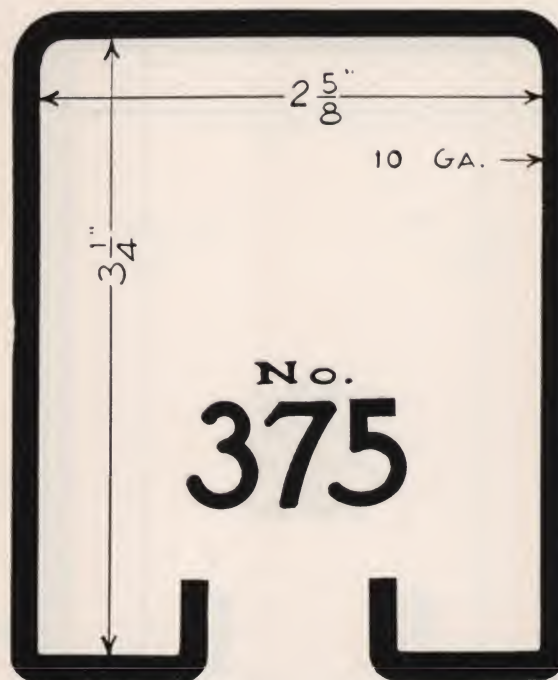
Gray enamel, regular. Galvanized available when specified.

•Weight

Per foot, 5-3/4 lbs.

•Track Brackets—Order Separately

No. 2 x 375 end brackets for each end of each run of track.
No. 39 x 375 lock-joint brackets for each joint.
No. 1 x 375 center brackets to complete spacing on not more than 24" centers.

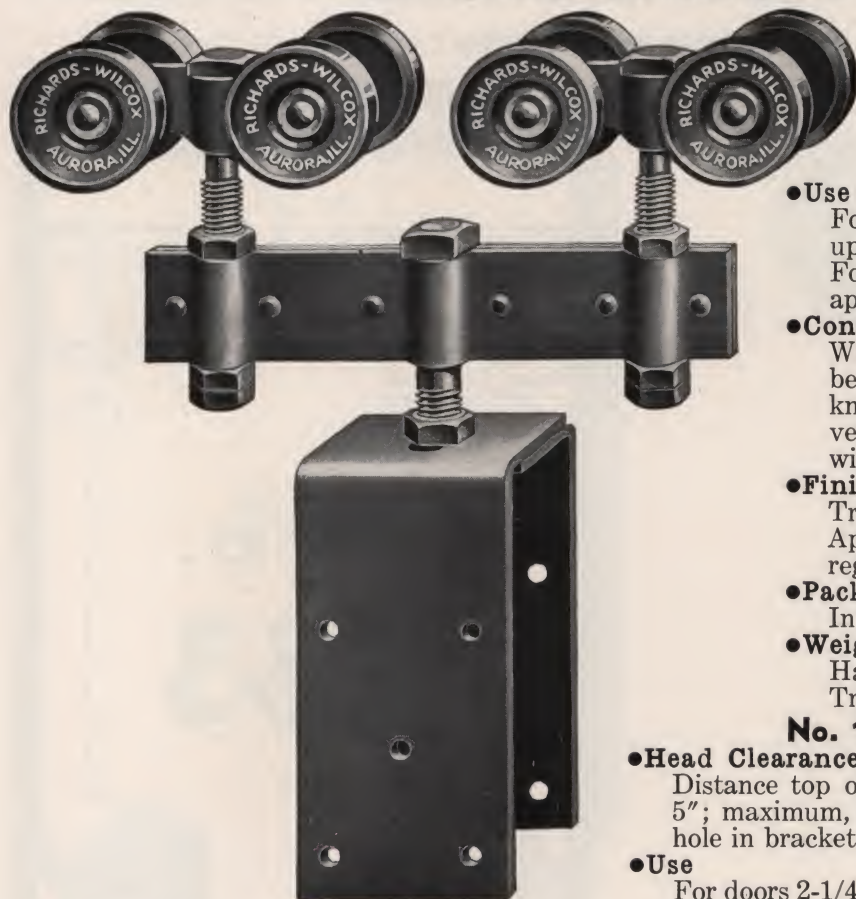


Full Size Cross-Section of
No. 375 Trolley Track

For other types of track brackets, see pages 92-95.

No. 155 and No. 155 $\frac{1}{2}$ -B Wharf and Industrial Door Hangers

For very heavy doors weighing up to 1,600 lbs.



No. 155 (Roller Bearing)

•Head Clearance

Distance top of door to bottom of track: minimum, 5-1/2"; maximum, 7". Bottom of track to center of hole in bracket, 5".

•Use

For doors 2-1/4" to 3-1/2" thick weighing up to 1,600 lbs.

For wood doors, specify hangers with aprons. For steel doors, specify trucks.

•Construction

Wheels, drop forged, 3" diameter. Roller bearing. Frame, malleable iron. Rigid or knuckle-joint, as specified. Lateral and vertical adjustment. Apron 9" long, 4-1/2" wide, and 1/4" thick.

•Finish

Trucks, cadmium plated.

Aprons and connecting bar, gray enamel, regular. Galvanized available when specified.

•Packed

In bulk, less bolts.

•Weight

Hangers, per pair, 40 lbs.

Trucks, per pair, 22 lbs.

No. 155 $\frac{1}{2}$ -B (Ball Bearing)

•Head Clearance

Distance top of door to bottom of track: minimum, 5"; maximum, 6-3/4". Bottom of track to center of hole in bracket, 5".

•Use

For doors 2-1/4" to 3-1/2" thick weighing up to 1,600 lbs.

For wood doors, specify hangers with aprons. For steel doors, specify trucks.

•Construction

Wheels, drop forged steel, 3" diameter.

Frame, drop forged steel. Ball bearings.

Lateral and vertical adjustment. Apron, 9" long, 4-1/2" wide, 1/4" thick.

•Finish

Trucks, cadmium plated.

Aprons and connecting bar, gray enamel, regular. Galvanized available when specified.

•Packed

In bulk, less bolts.

•Weight

Hangers, per pair, 40 lbs.

Trucks, per pair, 27 lbs.

Lock-Joint Track and Brackets

•Track (No. 375 Lock-Joint Trolley Track)

•Construction

No. 10 gauge steel.

•Dimensions

2-5/8" x 3-1/4" inside dimensions.

•Stock Lengths

4', 6', 8', and 10' lengths.

•Finish

Gray enamel, regular. Galvanized available when specified.

•Weight

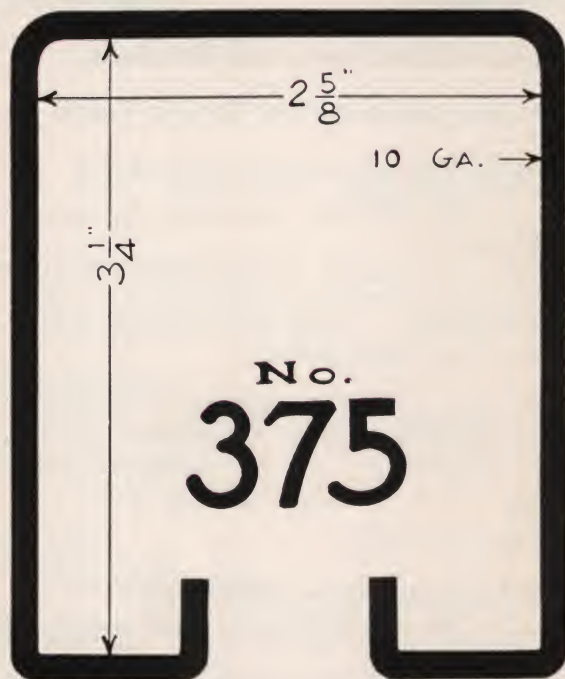
Per foot, 5-3/4 lbs.

•Track Brackets—Order Separately

No. 2 x 375 end brackets for each end of each run of track.

No. 39 x 375 lock-joint brackets for each joint.

No. 1 x 375 center brackets to complete spacing on not more than 24" centers.



Full Size Cross-Section of No. 375 Trolley Track

For other types of track brackets, see pages 92-95.

No. 499 Wharf and Industrial Door Hangers

For doors weighing up to 1,200 lbs.



•Made in Two Sizes

No. 1, for doors 1-3/4" to 2" thick.
No. 2, for doors 2-1/4" to 3-1/2" thick.

•Head Clearance

Distance top of door to bottom of track: minimum, 1-1/4"; maximum, 2-3/8". Bottom of track to center of hole in bracket, 6-1/4".

•Use

For doors 1-3/4" to 3-1/2" thick (see above) weighing up to 1,200 lbs. For steel doors, specify "Less Aprons."

•Construction

Wheels, gray iron, 4" diameter. Frame, drop forged steel. Ball bearings. Lateral and vertical adjustment. Apron, 9-1/2" long, 4" wide, 3/16" thick.

•Finish

Trucks, cadmium plated.
Aprons, gray enamel, regular. Galvanized available when specified.

•Packed

One pair in box with stove bolts.

•Weight

Hangers, per pair, 23 lbs.
Hangers, less aprons, per pair, 13 lbs.

Lock-Joint Track and Brackets

•Track (No. 233 Lock-Joint Trolley Track)

•Construction

No. 10 gauge steel.

•Dimensions

2-5/8" x 4-1/4" inside dimensions.

•Stock Lengths

4', 6', 8', and 10' lengths.

•Finish

Gray enamel, regular. Galvanized available when specified.

•Weight

Per foot, 6-1/2 lbs.

•Track Brackets—Order Separately

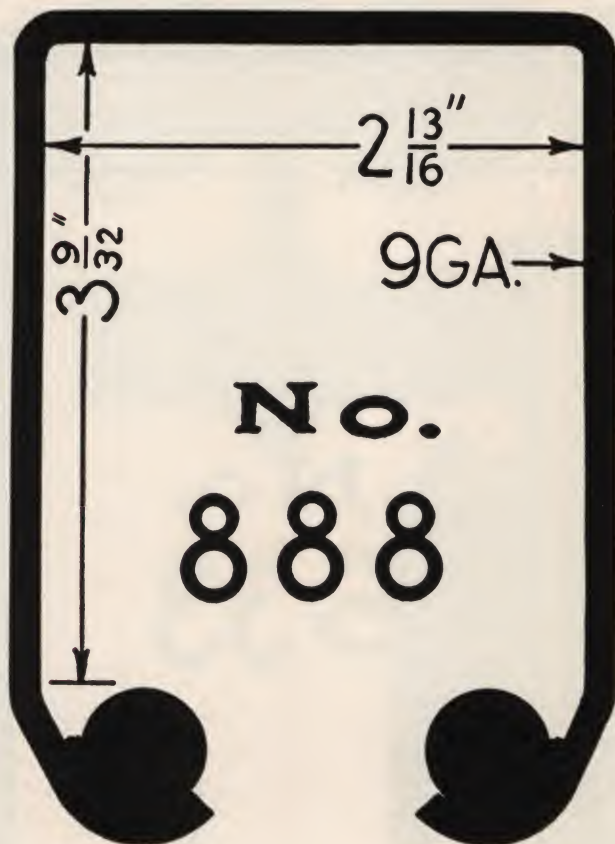
No. 2 x 233 end brackets for each end of each run of track.

No. 39 x 233 lock-joint brackets for each joint.
No. 1 x 233 center brackets to complete spacing on not more than 24" centers.

For other types of track brackets, see pages 92-95.

No. 888-13 Wharf and Warehouse Door Hangers

For very heavy doors weighing up to 2,500 lbs.



Note

If Hanger with Top Plate, Instead of Apron Is Desired Specify No. 888-3.

Lock-Joint Track and Brackets

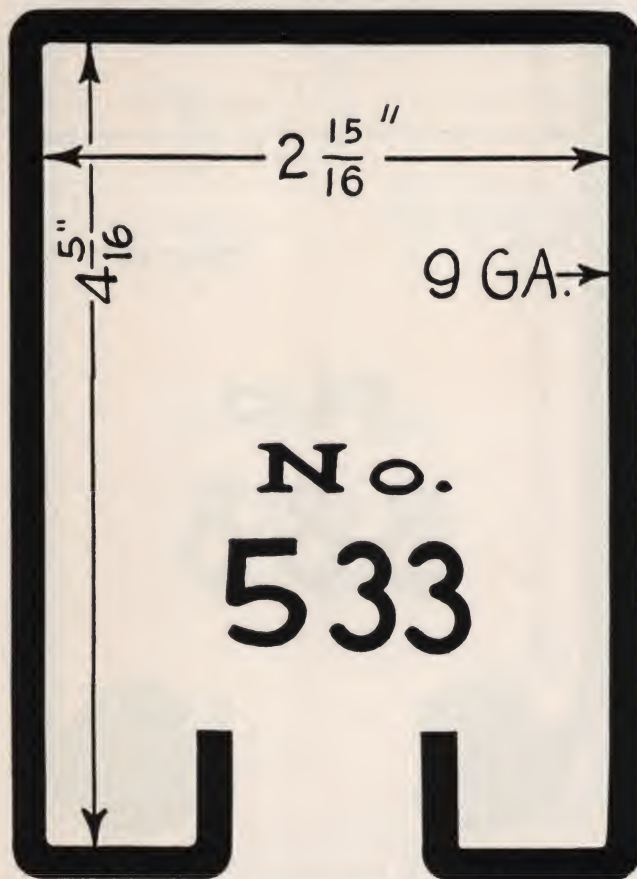
- **Track (No. 888 Lock-Joint Track)**
- **Construction**
No. 9 gauge steel, 5/8" round cold-rolled steel bars welded into housing.
- **Dimensions**
2-13/16" x 3-9/32" inside dimensions.
- **Stock Lengths**
4', 6', 8', and 12' lengths.
- **Finish**
Gray enamel only.
- **Weight**
Per foot, 8 lbs.
- **Track Brackets—Order Separately**
No. 2 x 888 end brackets, No. 39 x 888 lock-joint brackets, No. 1 x 888 center brackets to complete spacing on not more than 24" centers.

No. 888-13 Hanger Shown

- **Head Clearance**
Distance top of door to bottom of track: minimum, 4-1/2"; maximum, 6-1/2".
- **Use**
For doors 1-3/4" to 4-1/4" thick weighing up to 2,500 lbs. Thickness of doors must be specified.
- **Construction**
Wheels, steel, 3" diameter. Frame, malleable iron. Ball bearings. Apron, 12" long, 5" wide, 3/8" thick.
- **Finish**
Trucks, cadmium plated.
Aprons and top plates, gray enamel, regular.
Galvanized available when specified.
- **Packed**
In bulk, less bolts.
- **Weight**
Per pair, trucks, 19-1/4 lbs.
Top plates, 6-1/4 lbs.
Aprons, 30 lbs. 5 oz.

No. 598 Wharf and Industrial Ball-Bearing Door Hangers

For very heavy doors weighing up to 2,000 lbs.



Full Size Cross-Section of No. 533 Trolley Track

•Made in Three Sizes

- No. 1, for doors 1-3/4" to 2-1/4" thick.
- No. 2, for doors 2-1/2" to 3-1/4" thick.
- No. 3, for doors 3-1/2" to 4-1/4" thick.

•Head Clearance

Distance top of door to bottom of track: minimum, 1-3/4"; maximum, 3-1/4". Bottom of track to center of hole in bracket, 6".

•Use

For doors 1-3/4" to 4-1/4" thick (see above) weighing up to 2,000 lbs. For steel doors, specify "Less Aprons."

•Construction

Wheels, gray iron, 4" diameter. Frame, malleable iron. Felt seals. Ball bearings. Lateral and

vertical adjustment. Apron, 12" long, 5" wide, 3/8" thick.

•Finish

Trucks, cadmium plated.
Aprons, gray enamel, regular. Galvanized available when specified.

•Packed

In bulk, less bolts.

•Weight

Per pair, hangers, 50 lbs.
Per pair, less aprons, 20 lbs.

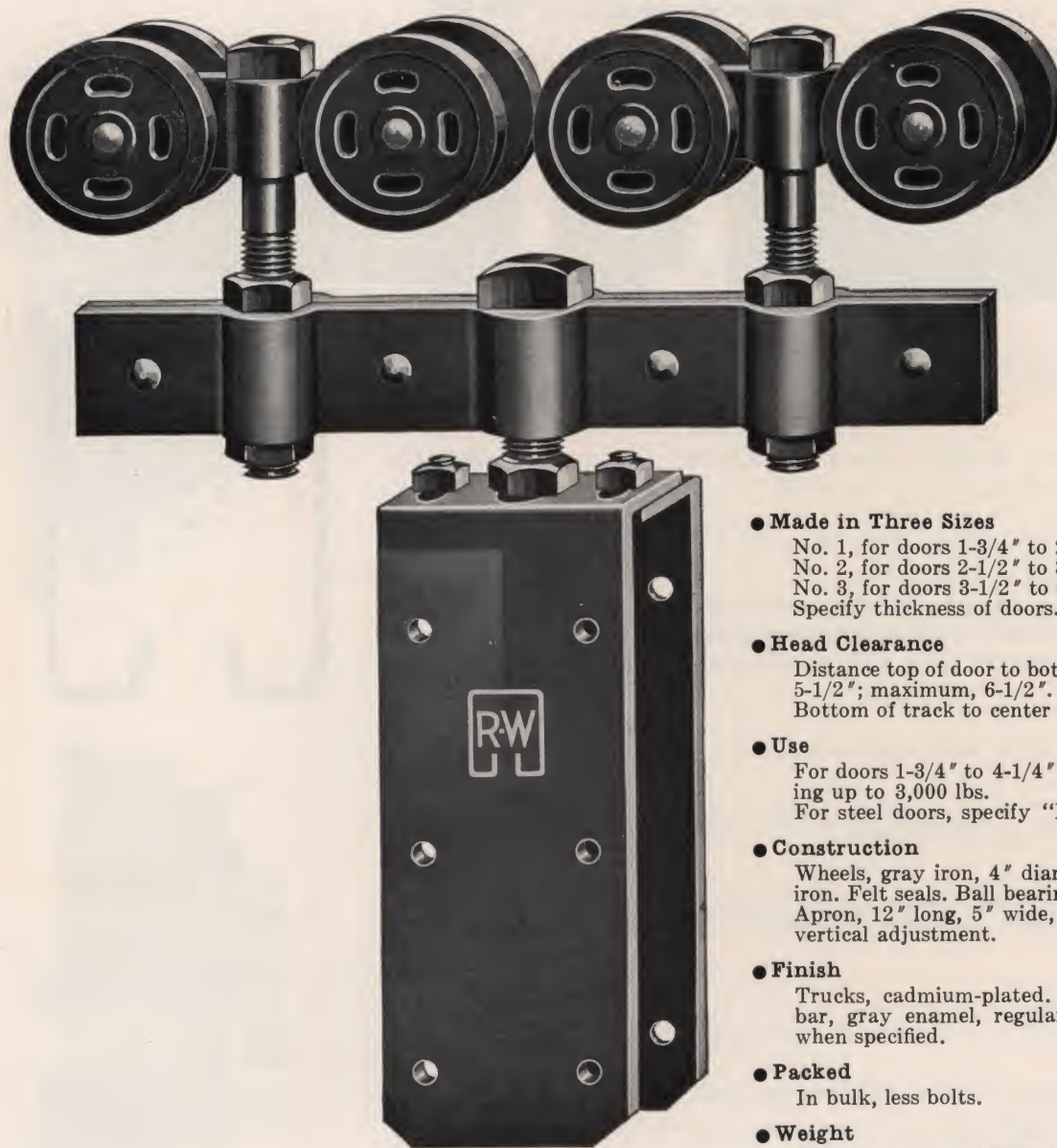
Lock-Joint Track and Brackets

•Track (No. 533 Lock-Joint Trolley Track)

Complete information given on opposite page.

No. 1098 Wharf and Industrial Ball-Bearing Door Hangers

For very heavy doors weighing up to 3,000 lbs.



● Made in Three Sizes

No. 1, for doors 1-3/4" to 2-1/4" thick.
No. 2, for doors 2-1/2" to 3-1/4" thick.
No. 3, for doors 3-1/2" to 4-1/4" thick.
Specify thickness of doors.

● Head Clearance

Distance top of door to bottom of track: minimum, 5-1/2"; maximum, 6-1/2".
Bottom of track to center of hole in bracket, 6".

● Use

For doors 1-3/4" to 4-1/4" thick (see above) weighing up to 3,000 lbs.
For steel doors, specify "Less Aprons."

● Construction

Wheels, gray iron, 4" diameter. Frame, malleable iron. Felt seals. Ball bearings.
Apron, 12" long, 5" wide, 3/8" thick. Lateral and vertical adjustment.

● Finish

Trucks, cadmium-plated. Aprons and connecting bar, gray enamel, regular. Galvanized available when specified.

● Packed

In bulk, less bolts.

● Weight

Hangers, per pair, 87 lbs.
Less aprons, per pair, 57-1/2 lbs.

Lock-Joint Track and Brackets

● Track (No. 533 Lock-Joint Trolley Track)

See opposite page for full size cross-section.

● Construction

No. 9 gauge steel.

● Dimensions

2-15/16" x 4-5/16" inside dimensions.

● Stock Lengths

4', 6', 8', and 10' lengths.

● Finish

Gray enamel, regular. Galvanized available when specified.

● Weight

Per foot, 8 lbs.

● Track Brackets—Order Separately

No. 2 x 533 end brackets for each end of each run of track.
No. 39 x 533 lock-joint brackets for each joint.
No. 1 x 533 center brackets to complete spacing on 24" centers.

For other types of track brackets, see pages 92-95.

No. 239



Trolley Track

For doors weighing up to 200 lbs.



●Track

No. 239 EaR-Way Lock-Joint Trolley Track.

●Clearances

Bottom of track to center of hole in ear, 2-9/16".

Center of hole in ear to top of ear, 7/16".

●Construction

No. 16 gauge steel.

Ears for attaching track to building with 5/16" x 2" lag screws are spaced on 12" centers. Sufficient lag screws are provided with each order.

Bosses hold track away from building allowing free passage of air.

●Dimensions

1-3/8" wide by 1-7/8" high inside dimensions.

●Stock Lengths

Available in 6', 8' and 10' lengths.

●Finish

Gray enamel regular. Galvanized; available when specified.

●Weight

Per foot, 1-1/2 lbs.

●Joint Sleeves

One No. 239 lock-joint sleeve required for each joint.

Weight, each, 1/2 lb.

●For Parallel Doors

Necessary to use wooden strip for a place to attach the ears.

Extension plates which afford a means of using two lags one above the other for attaching each ear are necessary to insure secure anchorage for track.

●Length of Track

Order twice as much track as opening is wide.

For weatherstrip, order as many feet as opening is wide.

●Weight

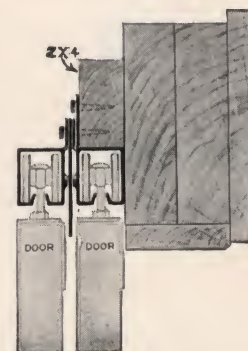
Joint sleeves, each, 1/2 lb.

Weatherstrip, per foot, 1-1/8 lbs.

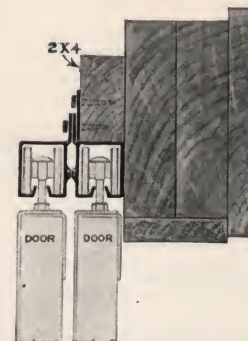
Extension plates, per C, 10 lbs.



Full Size
Cross-Section
R-W No.
239
Track



Cross-Section view of Parallel
Track installation, with
weatherstrips, showing ex-
tension plates.



Cross-Section view of Parallel
Track installation, without
weatherstrips, showing ex-
tension plates.

Trolley Track Hangers

For No. 239 Lock-Joint Trolley Track

For doors weighing up to 200 lbs.

No. 346 Hanger

- **Head Clearance**

Distance top of door to bottom of track, 13/16".

- **Use**

For doors, 1-3/8" to 1-3/4" thick, weighing up to 200 lbs.

- **Construction**

Wheels, steel, 1-3/4" diameter. Bearings, roller. Lateral adjustment only.

Apron, 6" long, 3-3/8" wide, 14 gauge steel.

- **Finish**

Trucks, cadmium plated.

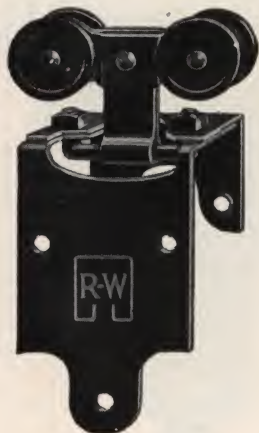
Aprons, gray enamel, regular. Galvanized available when specified.

- **Packed**

One pair in box with carriage and stove bolts.

- **Weight**

Per pair, 4-1/2 lbs.



R-W No. 346

No. 346-1/2B Hanger

- **Head Clearance**

Distance top of door to bottom of track: minimum, 7/8"; maximum, 1-1/2".

- **Use**

For doors, 1-3/8" to 1-3/4" thick, weighing up to 200 lbs.

- **Construction**

Wheels, steel, 1-3/4" diameter. Bearings, steel balls. Lateral and vertical adjustment. Apron 4-9/16" long, 3" wide, 13 gauge steel.

- **Finish**

Trucks, cadmium plated.

Aprons, gray enamel, regular. Galvanized available when specified.

- **Packed**

One pair in box with carriage and stove bolts.

- **Weight**

Per pair, 3-3/4 lbs.



R-W No. 346-1/2B

All hangers on this page will operate in No. 239 track (see opposite page) or No. 30-1/2 track on page 47.

Nos. 399-36 and 423-36 Barn Door Hangers

For doors weighing up to 300 lbs.

●Head Clearance

Distance top of door to top of track: No. 399-36, 5-3/4";
No. 423-36, minimum, 5-3/8"; maximum, 6-1/8".

●Use

No. 399-36, for doors 1-3/4" thick.
No. 423-36, for doors 1-3/4" to 2" thick. Weighing up to 300 lbs.
Aprons must be let into doors of maximum thickness.

●Construction

Wheels, steel, 2-1/4" diameter. Bearings, roller.
Apron, 6" long, 3-1/2" wide, 1/8" thick. Adjustment:
No. 399-36, lateral only; No. 423-36, lateral and vertical.

●Finish

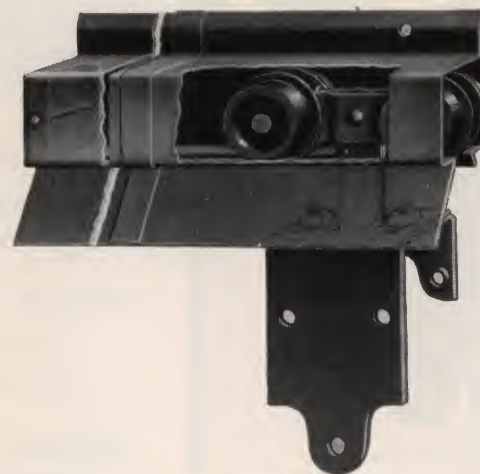
Trucks, cadmium plated.
Aprons, gray enamel, regular. Galvanized available when specified.

●Packed

One pair in box with two track end stops with carriage and stove bolts.

●Weight

No. 399-36, per pair, 5-3/4 lbs.
No. 423-36, per pair, 6-1/2 lbs.



No. 399-36

Storm-Proof Track

●Track

No. 36 storm-proof track.

●Construction

No. 14 gauge steel.
Back piece forms one wheel runway.
Front piece forms one wheel runway continuing below top of door. Bosses keep track away from building allowing passage of air. Telescopic ends connect forming perfect joints.

●Stock Lengths

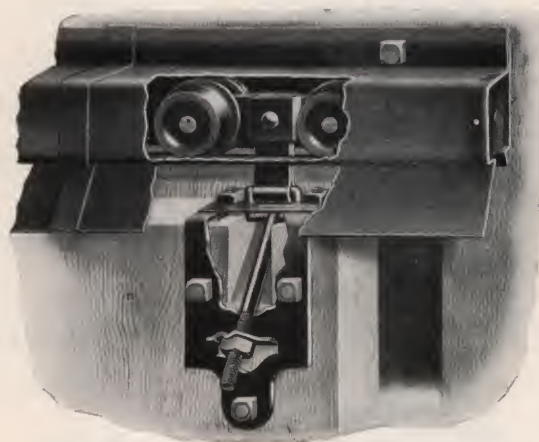
6', 8', and 10' lengths.

●Finish

Gray enamel, regular. Galvanized available when specified.

●Weight

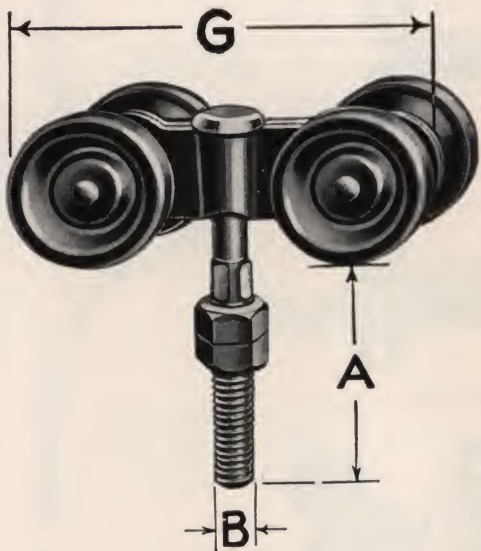
Per foot, 3 lbs.



No. 423-36

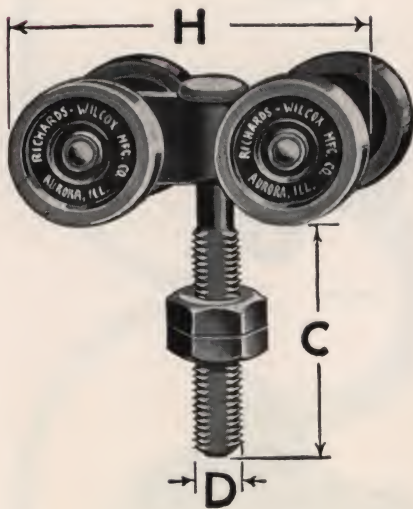
R-W Trucks

Trucks are frequently used on steel doors



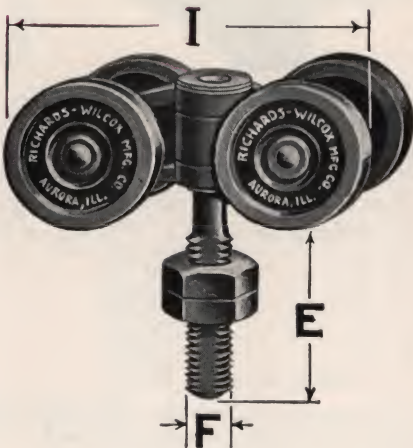
Rigid Frame Trucks

Cat. No.	A	B	G	For Track No.	Bearing	For Doors Weighing	Diameter Wheels	Weight per Pair
20-2	3"	1 1/4"	4 3/4"	31	Roller	300 lbs.	2 1/4"	2 1/2 lbs.
25	3 1/4"	1 1/2"	6"	31	Roller	300 lbs.	2 1/4"	3 1/4 lbs.
28V	3"	1 1/4"	6 1/2"	32	Roller	400 lbs.	2 1/2"	4 1/2 lbs.
29V	3 1/4"	1 1/2"	7 1/8"	232	Roller	600 lbs.	3"	6 1/4 lbs.
121	3 1/4"	1 3/4"	7 1/2"	33	Roller	800 lbs.	3"	8 lbs.



Rigid Frame Trucks

Cat. No.	C	D	H	For Track No.	Bearing	For Doors Weighing	Diameter Wheels	Weight per Pair
20 1/2 B	2 3/4"	1 1/4"	5"	31	Ball	300 lbs.	2 1/4"	3 lbs.
28 1/2 B	3"	1 1/2"	6 1/4"	32	Ball	400 lbs.	2 3/8"	4 3/4 lbs.
29 1/2 B	3 3/8"	1 3/4"	6 3/4"	232	Ball	600 lbs.	3"	6 3/4 lbs.
123 1/2 B	3 1/2"	1 3/4"	7 5/8"	33	Ball	800 lbs.	3"	9 1/2 lbs.



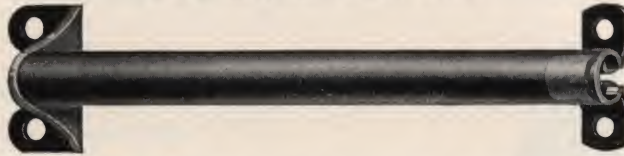
Knuckle-Joint Trucks

Cat. No.	E	F	I	For Track No.	Bearing	For Doors Weighing	Diameter Wheels	Weight per Pair
27 1/4 BKJ	3"	5/8"	5"	31	Ball	300 lbs.	2 1/4"	3 1/4 lbs.
28 1/4 BKJ	3"	5/8"	5 3/4"	32	Ball	400 lbs.	2 3/8"	4 3/4 lbs.
29 1/4 BKJ	3"	5/8"	6 3/4"	232	Ball	600 lbs.	3"	6 3/4 lbs.
123 1/2 BKJ	3 1/2"	3/4"	6 3/4"	33	Ball	800 lbs.	3"	9 1/2 lbs.

Finish: All trucks on this page are cadmium plated.

Round Tracks and Brackets

Gray Enamel Finish Only



No. 242-A Track with No. 242-A-C Center Bracket and No. 542-A-E End Bracket



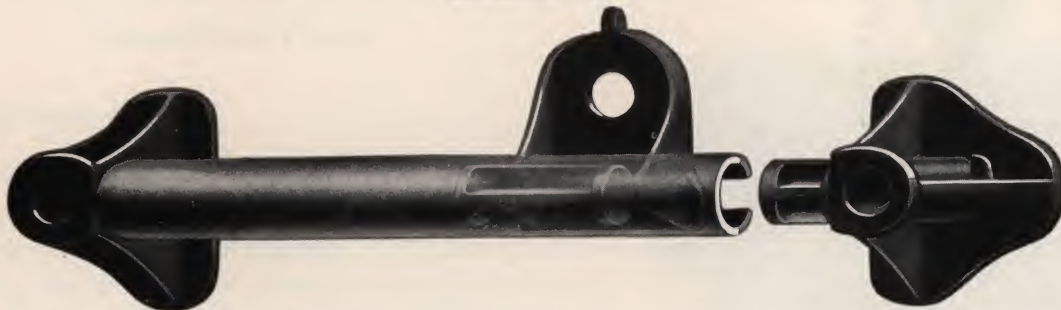
No. 242-B Track with No. 242-B-C Center Bracket and No. 542-B-E End Bracket



No. 542-A Track with Malleable Brackets, No. 542-A-C Center, and No. 542-A-E End



No. 542-B Track with Malleable Brackets, No. 542-B-C Center, and 542-B-E End



No. 542-C Track with Malleable Brackets No. 542-CC-2 or 3 Center, and No. 542-CE-2 or 3 End as specified
 ‡No. 542-D Track is same as No. 542-C except made of heavier material

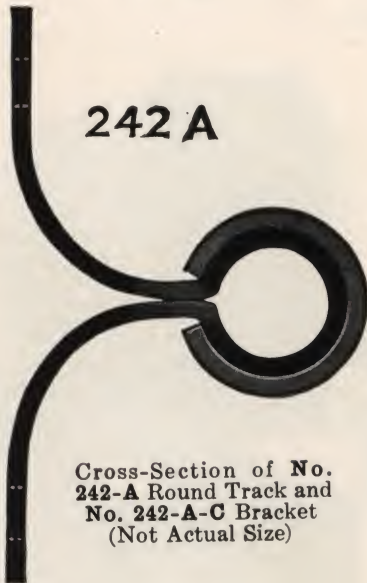
Correct Brackets to Use with R-W Round Tracks

Track No.	Center Brackets	End Brackets	Joint Brackets	When 542-C-2 Hangers are Used	When 542-C-3 Hangers are Used	When 642-5 Hangers are Used
242-A	242-A-C	542-A-E	.....	.....	.....	.....
242-B	242-B-C	542-B-E	.....	.....	.....	.....
542-A	542-A-C	542-A-E	.....	.....	.....	.....
542-B	542-B-C	542-B-E	.....	.....	.....	.....
542-C	542-CC-2	542-CE-2	542-CJ-2	For 1¾" Door	.....	.....
542-C	542-CC-2	542-CE-2	542-CJ-2	.....	For 2" Door	.....
542-C	542-CC-3	542-CE-3	542-CJ-3	For 2¼" Door	.....	Any thickness of
542-C	542-CC-3	542-CE-3	542-CJ-3	.....	For 2½" Door	Door 1¾ to 3½"
542-D	542-CC-2	542-CE-2	542-CJ-2	Used only with No. 455 Hangers for doors 1¾" to 3½" thick		
542-D	542-CC-3	542-CE-3	542-CJ-3			

Round Tracks and Brackets

Gray Enamel Finish Only

242 A



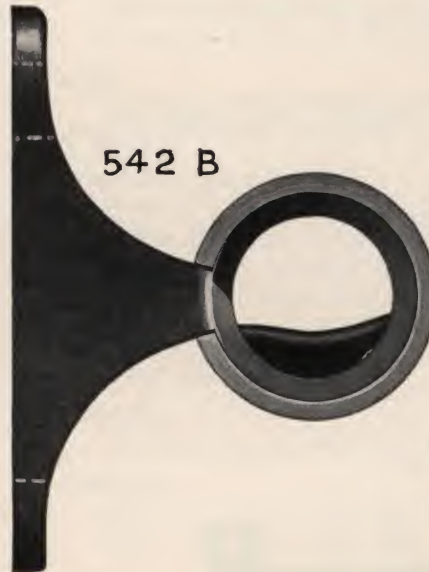
Cross-Section of No. 242-A Round Track and No. 242-A-C Bracket (Not Actual Size)

(Right) Cross-Section of No. 542-A Round Track, and No. 542-A-C Bracket (Not Actual Size)

542 A

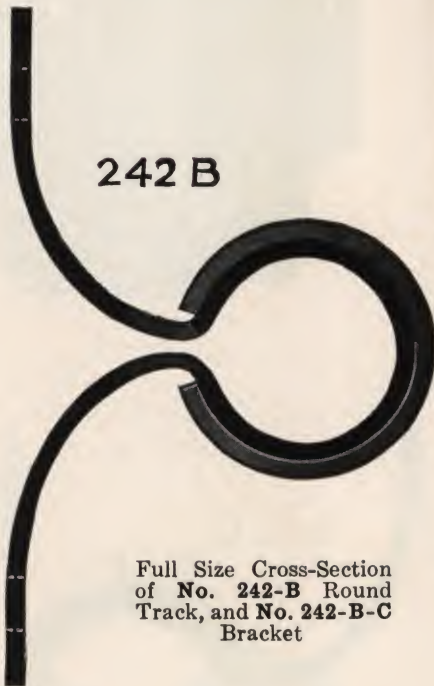


542 B



(Left) Full Size Cross-Section of No. 542-B Round Track, and No. 542-B-C Bracket

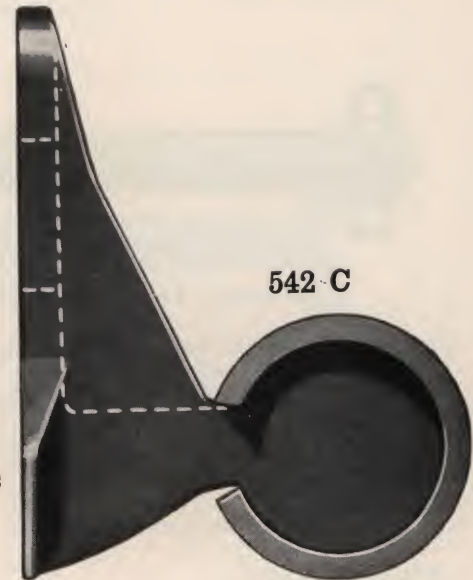
242 B



Full Size Cross-Section of No. 242-B Round Track, and No. 242-B-C Bracket

Full Size Cross-Section of No. 542-C Round Track, with No. 542-CC-2 Bracket

542 C



Round Track Weight Table

Track No.	Gauge Steel	Outside Diameter Inches	Standard Lengths Ft.	Pieces to Bundle	Weight per 100 Ft. with Brackets, Lbs.
242-A	14	$\frac{7}{8}$	4-6-8-10	10	68
242-B	14	$1\frac{1}{16}$	4-6-8-10	10	90
542-A	14	$\frac{7}{8}$	4-6-8-10	10	75
542-B	14	$1\frac{1}{16}$	4-6-8-10	10	100
542-C	10	$1\frac{1}{16}$	4-6-8-10	10	225
542-D	$\frac{3}{16}$	$1\frac{1}{16}$	4-6-8-10	10	281

NOTE—When ordering, state length and number of pieces required. No. 542-C track is always furnished with -3 size brackets unless otherwise specified.

No. 362 Round Track Barn Door Hangers

For doors weighing up to 250 lbs.

●Head Clearance

Distance top of door to center of track: minimum, 2-3/4"; maximum, 3-1/4".

Clearance above center of track, 3-3/4".

●Use

For doors up to 1-3/4" thick weighing up to 250 lbs.

●Construction

Wheels, steel, 2-1/2" diameter. Steel hood. Roller bearings. Lateral and vertical adjustment. Apron, 6" long, 3-1/2" wide, 1/8" thick.

●Finish

Gray enamel only.

●Packed

One pair in box with carriage and stove bolts.

●Weight

Per pair, 7 lbs.



Round Track and Brackets

Track (No. 242-B Round Track and Brackets)

●Construction

No. 14 gauge steel.

●Dimensions

1-5/16" outside diameter.

●Stock Lengths

4', 6', 8', and 10' lengths.

●Finish

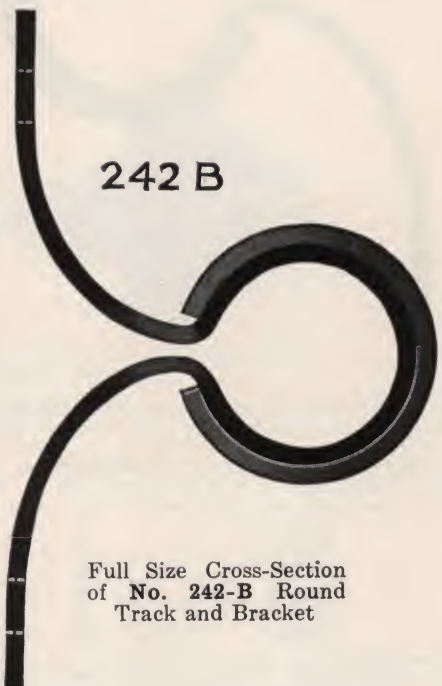
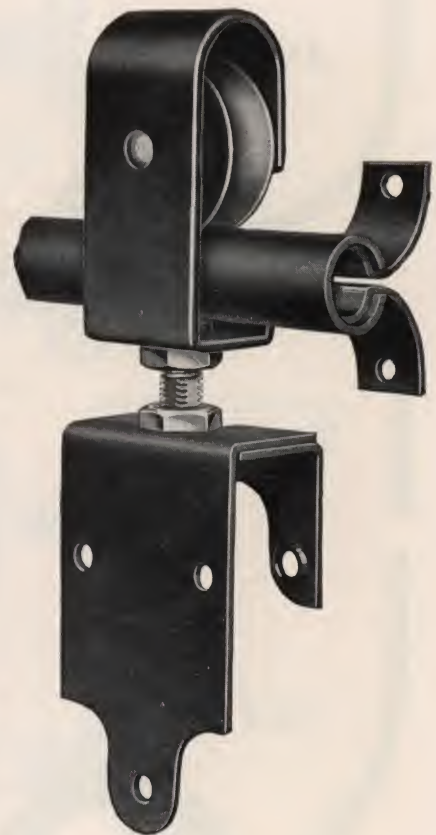
Gray enamel only.

●Weight

Per 100', 90 lbs.

●Track Brackets—Included with Track

When ordering, specify number of end, center, and joint brackets required to complete spacing on not more than 24" centers.



242 B

Full Size Cross-Section
of No. 242-B Round
Track and Bracket

No. 462 Round Track Barn Door Hangers

For doors weighing up to 150 and 250 lbs.

•Made in Two Sizes

No. 1, for doors 1-3/4" to 2" thick, weighing 150 lbs. Uses No. 242-A track.

No. 2, for doors 1-3/4" to 2-1/2" thick, weighing 250 lbs. Uses No. 242-B track (see opposite page).

•Head Clearance

Distance top of door to center of track: No. 1, 3/4"; No. 2, 1".

Clearance above center of track: No. 1, 3-1/4"; No. 2, 4".

•Use

For doors 1-3/4" to 2-1/2" thick, weighing up to 250 lbs. (see above).

•Construction

Wheels, steel: No. 1, 2-1/4" diameter; No. 2, 2-1/2" diameter. Roller bearings. Limit guide.

Hanger: No. 1, 9-1/2" long, 3" wide, 1/8" thick; No. 2: 10-1/2" long, 3-1/2" wide, 1/8" thick.

•Finish

Gray enamel only.

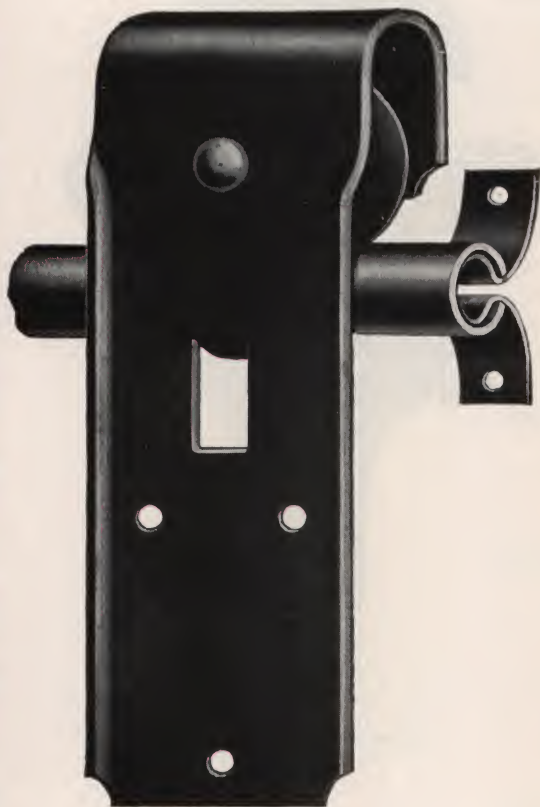
•Packed

One pair in box with carriage bolts.

•Weight

No. 1, per pair, 4-1/4 lbs.

No. 2, per pair, 5-3/4 lbs.



Round Track and Brackets

•Track (No. 242-A Round Track)

•Construction

No. 14 gauge steel.

•Dimensions

7/8" outside diameter.

•Stock Lengths

4', 6', 8', and 10' lengths.

•Finish

Gray enamel only.

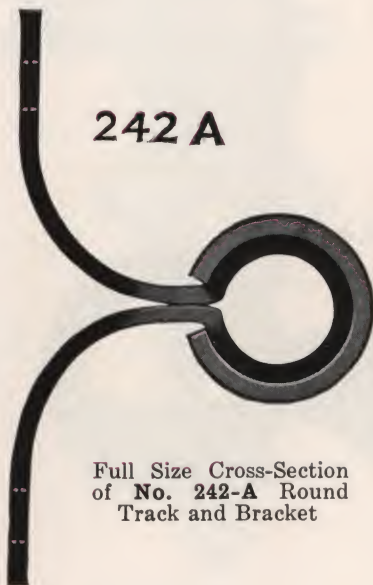
•Weight

Per 100', 68 lbs.

•Track Brackets—Included with Track

When ordering, specify number of end, center, and joint brackets required to complete spacing on not more than 24" centers.

242 A



Full Size Cross-Section
of No. 242-A Round
Track and Bracket

No. 542-A and B Barn Door Hangers and Track

For Doors Weighing Up 150 and 250 lbs.

●Made in Two Sizes

No. 542-A, for doors up to 1-3/4" thick, weighing up to 150 lbs.
Uses No. 542-A track.

No. 542-B, for doors 1-3/4" to 2", weighing up to 250 lbs. Uses
No. 542-B track.

●Head Clearance

Distance top of doors to center of track: No. 542-A, 1-3/8";
No. 542-B, 1-3/4".

Clearance above center of track: No. 542-A, 3"; No. 542-B,
3-3/4".

●Use

For doors 1-3/4" to 2" thick, weighing up to 250 lbs.

●Construction

Wheels, steel. Frame, malleable iron. Roller bearings.

No. 542-A, wheels, 2-1/4" diameter; hanger, 9-1/2" long, 4"
wide. No. 542-B, wheels, 2-1/2" diameter; hanger, 12" long,
5-1/2" wide.

●Finish

Gray enamel only.

●Packed

One pair in box with carriage bolts.

●Weight

No. 542-A, per pair, 5 lbs.

No. 542-B, per pair, 6 lbs.

Round Track and Brackets

●Track

No. 542-A, for doors up to 1-3/4" thick, weighing up to 150 lbs.

No. 542-B, for doors 1-3/4" to 2" thick, weighing up to 250 lbs.

●Dimensions

No. 542-A, 7/8" diameter.

No. 542-B, 1-5/16" diameter.

●Stock Lengths

4', 6', 8', and 10' lengths.

●Finish

Gray enamel only.

●Weight—with Brackets

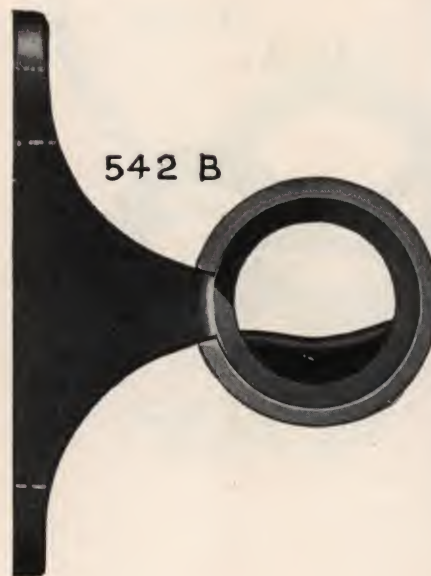
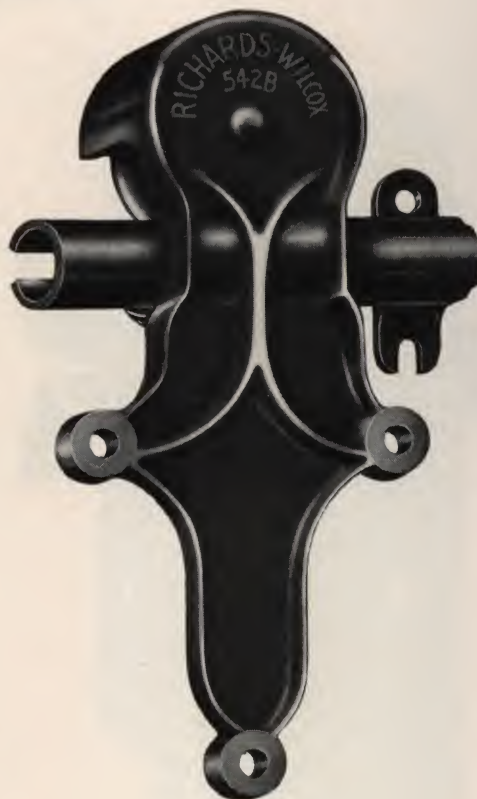
No. 542-A, per foot, 3/4 lb.

No. 542-B, per foot, 1 lb.

●Track Brackets—Furnished with Track

When ordering, specify number of end, center, and joint
brackets required to complete spacing on not more than 24"
centers.

See page 79 for full size cross-section and detailed information.



No. 542-C2 and C3 Round Track Hangers

For doors weighing up to 800 lbs.



No. 542-CS-2

No. 542-CM-2 Similar in Appearance to 542-CM-3 Below



No. 542-CM-3

No. 542-CS-3 Similar in Appearance to 542-CS-2 Above

•Made in Two Sizes

No. 2, for doors 1-3/4" to 2-1/4" thick.

No. 3, for doors 2", 2-1/2" and 2-5/8" thick.

Each size available in malleable iron (CM) or steel (CS) frame.

•Head Clearance

Distance top of door to center of track, 2-1/8".

Center of track to bolt hole:

1-3/4" to 2" doors, 1-1/4".

2-1/4" to 2-5/8" doors, 1-3/4".

Clearance above center of track, 5-3/4".

•Use

For doors 1-3/4" to 2-5/8" thick, weighing up to 800 lbs. (see above).

Unless otherwise specified, No. 3 will be furnished.

•Construction

Available in either malleable iron (CM) or steel (CS) construction.

Wheels, malleable iron, 4-3/8" diameter. Bearings, steel rollers.

Limit roller eliminates binding and prevents derailment.

Frame (CM) malleable iron, extra heavy ribbed back; (CS) wrought steel.

No. 2 size has offset in frame; length, over-all, 21"; width, 7".

•Finish

Gray enamel only.

•Packed

Three pair in carton, less bolts.

•Weight

Per pair; CM style, 22 lbs.; CS style, 25 lbs.



Round Track and Brackets

•Track (No. 542-C Round Track)

See page 79 for full size cross-section and detailed information.

No. 543 "Red Runner" Barn Door Hanger

For doors weighing up to 300 lbs.

●Head Clearance

Distance top of door to center of track, 2-3/8".

Clearance above center of track, 3-3/4".

●Use

For sliding barn doors 1-3/4" to 2-1/2" thick, weighing up to 300 lbs.

●Construction

Wheels, steel, 2-1/2" diameter. Steel hood. Roller bearings.

Lateral adjustment. Apron, 6" long, 3-3/8" wide, 1/8" thick.

Swing-out feature.

●Finish

Gray enamel only.

●Packed

One pair in box with carriage and stove bolts.

●Weight

Per pair, 6-3/4 lbs.



Round Track and Brackets

●Track (No. 242-B Round Track)

●Construction

No. 14 gauge steel.

●Dimensions

1-5/16" outside diameter.

●Stock Lengths

4', 6', 8', and 10' lengths.

●Finish

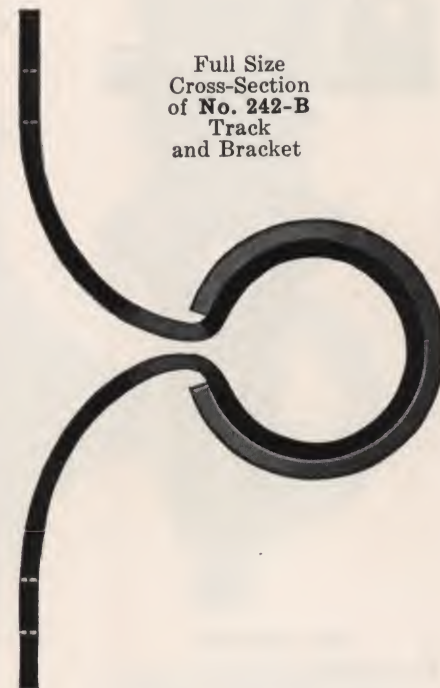
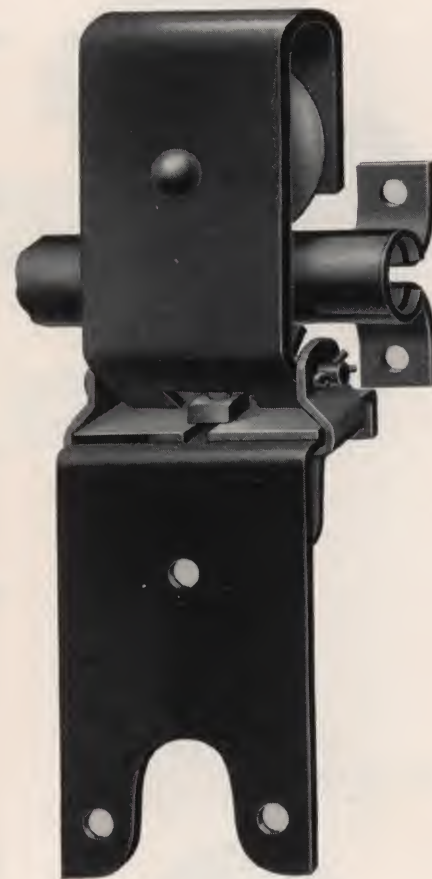
Gray enamel only.

●Weight

Per 100', 90 lbs.

●Track Brackets—Included with Track

When ordering, specify number of end, center, and joint brackets required to complete spacing on not more than 24" centers.



Full Size
Cross-Section
of No. 242-B
Track
and Bracket

No. 642-5 Adjustable Door Hanger

For doors weighing up to 800 lbs.



•Head Clearance

Distance top of door to center of track: minimum, 2-3/4"; maximum, 5".

Clearance above center of track, 5-3/4".

•Use

For doors 1-3/4" to 2-1/2" thick, weighing up to 800 lbs.

•Construction

Wheels, malleable iron, 4-3/8" diameter. Frame, malleable iron, ribbed back. Bearings, roller. Limit roller. Lateral and vertical adjustment. Length: minimum, 21-1/2"; maximum, 23-3/4"; width, 7".

•Finish

Gray enamel only.

•Packed

Two pair in box, less bolts.

•Weight

Per pair, 33 lbs.



Full Size Cross-Section of R-W No. 542-C Round Track with 542-CC-3 Brackets

Round Track and Brackets

•Track (No. 542-C Round Track)

•Construction

No. 10 gauge steel.

•Dimensions

1-7/16" outside diameter.

•Stock Lengths

4', 6', 8', and 10' lengths.

•Finish

Gray enamel only.

•Weight

Per 100', 225 lbs.

•Track Brackets—Included with Track

When ordering, specify number of end, center, and joint brackets required to complete spacing on not more than 24" centers.

No. 455 "PieR-Work" Warehouse Door Hanger

For doors weighing up to 1,500 lbs.

●Use

For warehouse and pier doors 1-3/4" to 3-1/2" thick, weighing up to 1,500 lbs.

●Construction

Wheels, malleable iron, 4" diameter on tread. Bearings, roller. Apron, 17" long, 11-3/4" wide. Lateral and vertical adjustment. Grease cup lubrication.

●Finish

Gray enamel only.

●Packed

One pair per crate, less bolts.

●Weight

Per pair, 65 lbs.

Round Track and Brackets

●Track (No. 542-D Round Track)

●Construction

3/16" steel.

●Dimensions

1-9/16" outside diameter.

●Stock Lengths

4', 6', 8', and 10' lengths.

●Finish

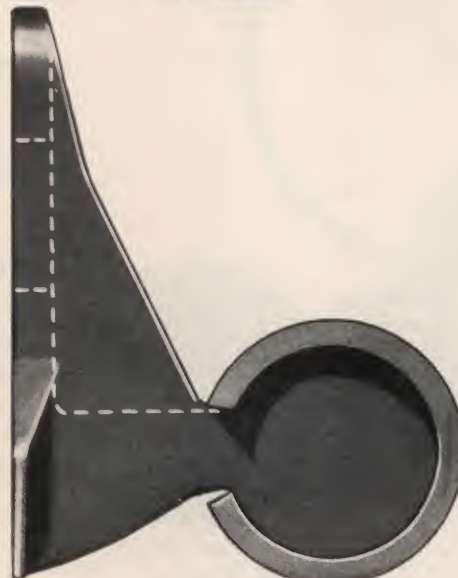
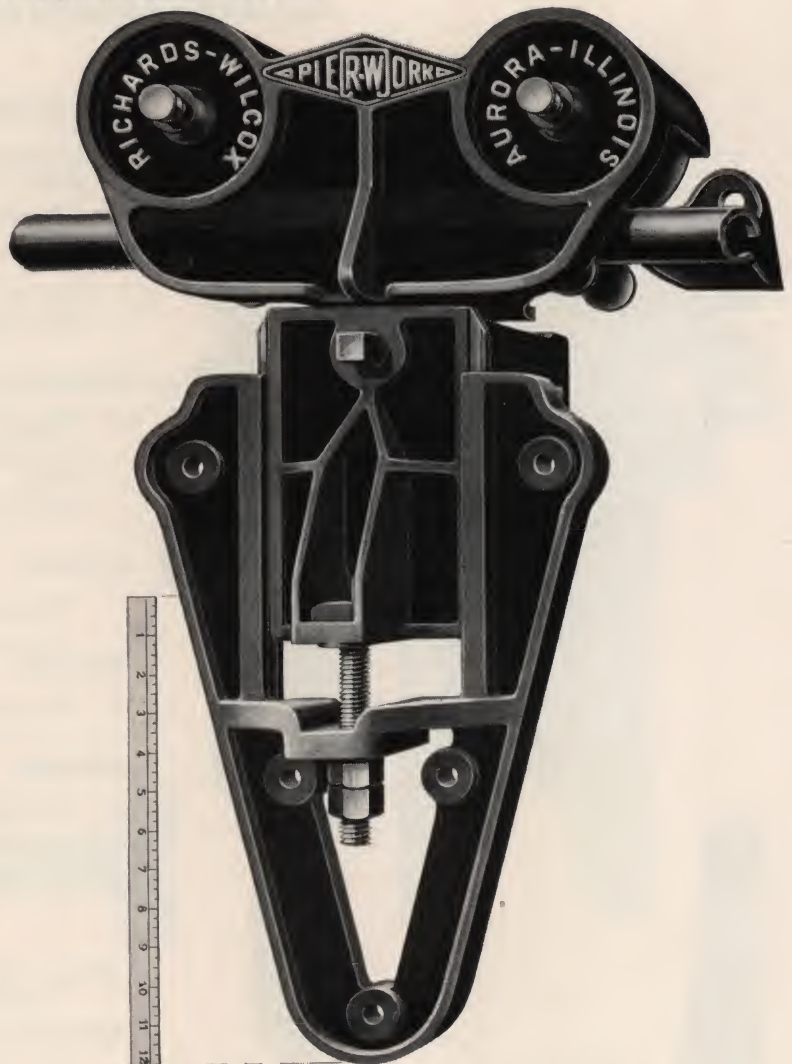
Gray enamel only.

●Weight

Per 100', 281 lbs.

●Track Brackets—Included with Track

When ordering, specify number of end, center, and joint brackets required to complete spacing on not more than 24" centers.



Cross-Section of No. 542-D Track

Flat Track Barn Door Hangers

For Doors Weighing Up to 250 lbs.

- **Hangers**

Nos. 47 and 1043.

- **Use**

No. 47, for doors 1-3/4" thick.

No. 1043, for doors 1-3/4" to 2-1/2" thick.

- **Construction**

Wheels, steel, 3" diameter. Roller bearings.

Hoods, steel.

No. 47 has a swing-out feature. No. 1043 has both lateral and vertical adjustment.

Aprons, No. 47, 5" x 2-1/2" x 1/8".

No. 1043, 6" x 3-1/2" x 1/8".

- **Finish**

Gray enamel only.

- **Packed**

One pair in box with bolts.

- **Weight**

Per pair, 6 lbs.

Flat Track

- **Track (No. 50 Flat Track)**

- **Dimensions**

1-1/4" x 3/16" steel bar with brackets attached.

- **Stock Lengths**

4', 6', 8', and 10' lengths.

- **Finish**

Gray enamel only.

- **Weight**

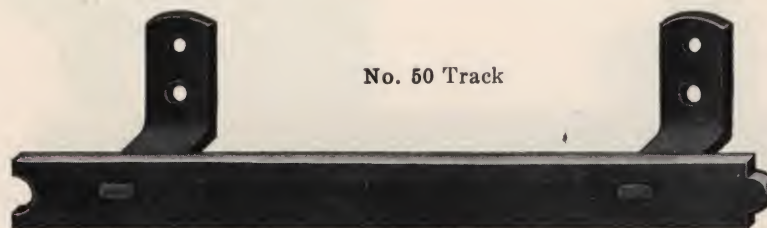
Per 100', 110 lbs.



No. 47



No. 1043



No. 50 Track

Flat Track Barn Door Hangers

•Hangers

No. 38 "World" and No. 43 "Ezy."

•Use

For doors 1-3/4" thick.

All hangers use No. 63 track except No. 38-3 which uses No. 68.

•Construction

Hanger No.	Wheels Made of	Diameter Wheels	Bearings	Pendants	Capacity
38-1	Steel	3-1/4"	Roller	12" x 1" x 3/16"	250 lbs.
38-2	Steel	4"	Roller	13" x 1" x 1/4"	300 lbs.
38-3	Iron	5"	Roller	14" x 1-1/4" x 1/4"	300 lbs.
43-1	Steel	3"	Roller	12" x 1-1/2" x 3/16"	250 lbs.
43-2	Steel	3"	Roller	15" x 2" x 3/16"	25 lbs.

•Finish

Gray enamel only.

•Packed

One dozen pair in carton, less bolts.

•Weight

Per dozen pair: 38-1, 85 lbs.; 38-2, 110 lbs.; 38-3, 145 lbs.; 43-1, 48 lbs.; 43-2, 60 lbs.

Flat Track

•Track (Nos. 63 and 68 Flat Track)

•Dimensions

No. 63, 1-1/4" x 3/16".

No. 68, 1-1/4" x 1/4".

•Stock Lengths

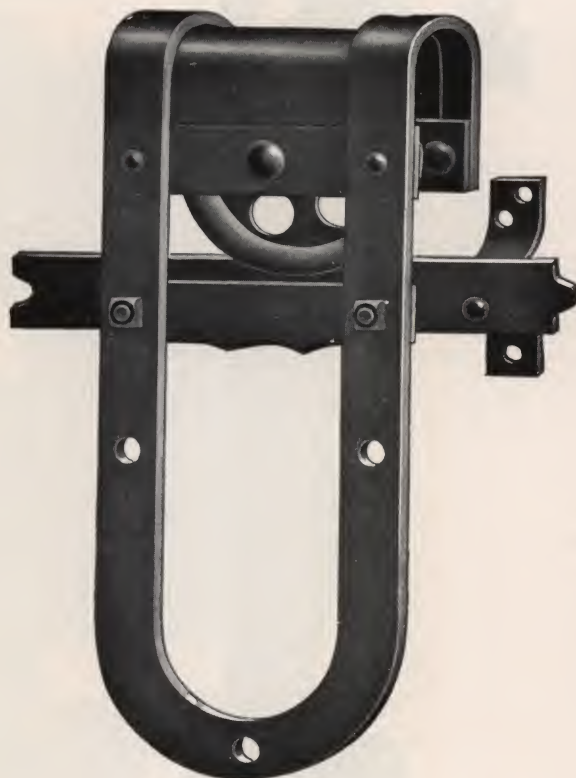
4', 6', 8', and 10' lengths.

•Finish

Gray enamel only.

•Weight

Per 100', No. 63, 100 lbs.; No. 68, 125 lbs.



No. 38



No. 43



Nos. 63 and 68

No. 101 "Safety" Warehouse and Pier Door Hangers

For doors 2" to 3" thick

• **Made in Three Sizes**

• **Use**

For doors 2" to 3" thick.

• **Construction**

Wheels, gray iron. Bearings, roller. Pendants, steel.
Individual differences, see table:

Hanger No.	Diameter Wheels	Pendants	Capacity
101-1	4-1/2"	3-1/2" x 1/4" x 20"	600 lbs.
101-2	6-1/4"	3-1/2" x 3/8" x 22"	800 lbs.
101-3	5"	3-1/2" x 3/8" x 22"	800 lbs.

• **Finish**

Gray enamel only.

• **Packed**

3 pair per crate, less bolts.

• **Weight**

Per pair, No. 1, 16 lbs.; No. 2, 30 lbs.; No. 3, 28 lbs.

Flat Track and Brackets

• **Track (No. 101 Track)**

Made in three widths.

Supplied with cone brackets for spacing on 30" centers.

• **Construction**

Steel, 3/8" thick (3 widths).

Cone brackets, gray iron.

• **Dimensions**

No. 101-2-1/2, track 3/8" x 2-1/2".

No. 101-3, track 3/8" x 3".

No. 101-3-1/2, track 3/8" x 3-1/2".

• **Stock Lengths**

As ordered.

• **Finish**

Gray enamel only.

• **Weight**

Per foot, No. 2-1/2—3-3/4 lbs.; No. 3—4-1/4 lbs.; No. 3-1/2—5 lbs.

• **Extra Cone Brackets—Order Separately**

No. 85-1, for 2-1/4" doors, 3/4 lb.

No. 85-2, for 2-1/4" to 2-5/8" doors, 1 lb.

No. 85-3, for 3" doors, 1 lb.

When ordering state thickness of doors and specify by catalog number, hangers, and track desired.



No. 101-1 and
No. 101-3



No. 101-2



No. 101 Track Made in
Three Widths (Lengths
as Ordered)

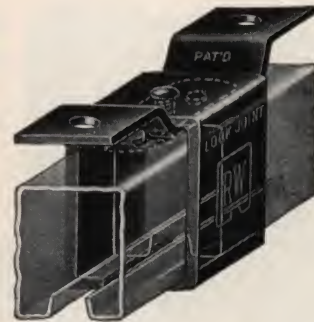


No. 85
Cone Bracket
Made in
Three Sizes

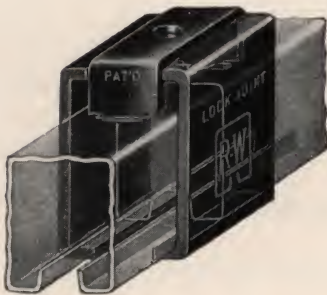
Typical R-W Lock-Joint Brackets



No. 059 Lock-Joint Cross Ear
Ceiling Center Bracket



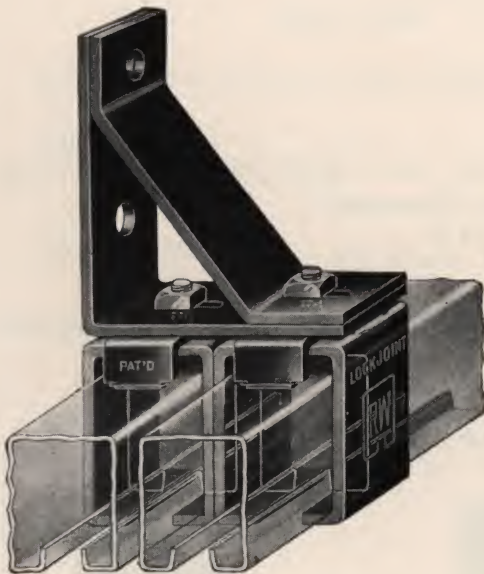
No. 079 Lock-Joint Parallel Ear
Ceiling Center Bracket



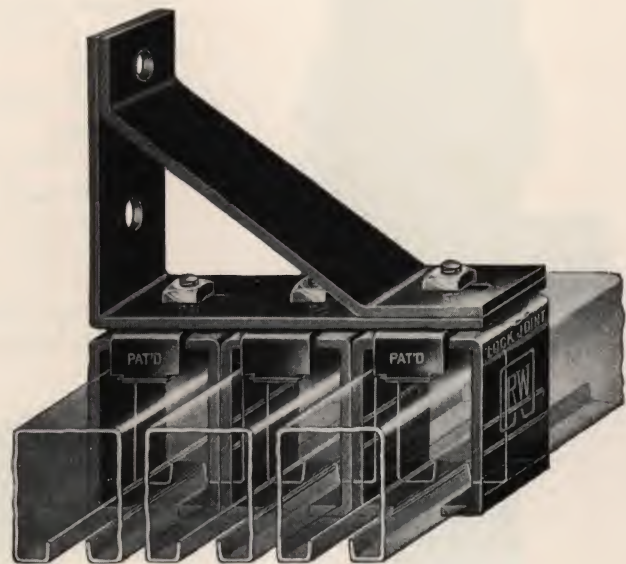
No. 189 Lock-Joint Plain
Ceiling Center Bracket



No. 39 Lock-Joint
Side Bracket



No. 229 Lock-Joint Side Double
Center Bracket

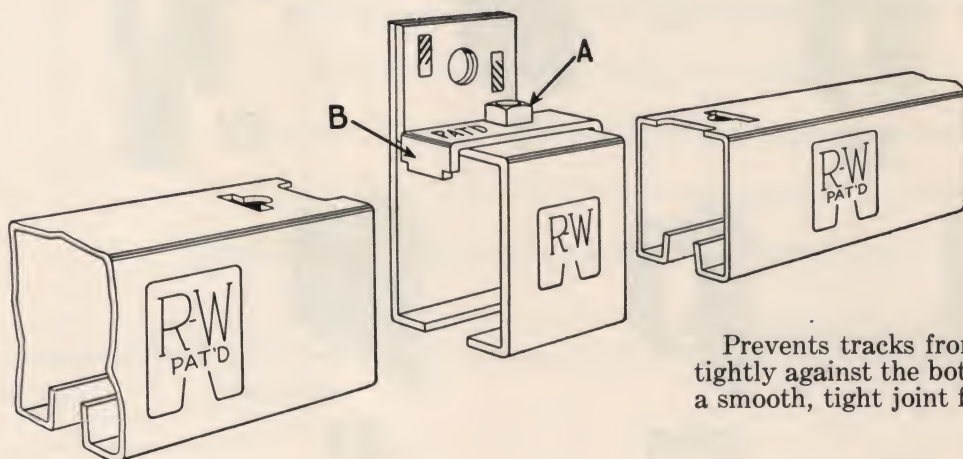


No. 339 Lock-Joint Side Triple
Center Bracket

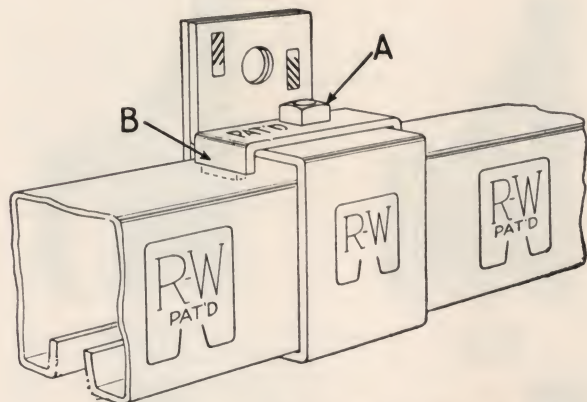
Use lock-joint track brackets on single, double or triple runs of tracks in order to be sure of a smooth runway for the hanger wheels to operate on. The above illustrations show the various types of Lock-Joint Brackets which we can furnish for our Lock-Joint tracks shown on pages 40-43.

To Order: Specify bracket number and track size thus: Bracket 189 x 33 or 059 x 31, as the case may be.

How to Apply Lock-Joint Brackets (Nos. 39, 229, 339) to Standard Size Trolley Tracks

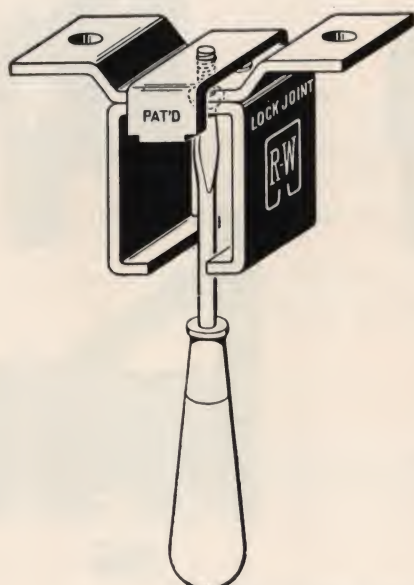


Prevents tracks from creeping and binds them tightly against the bottom of the bracket, making a smooth, tight joint for hanger runway.



Loosen nut "A," raise clamp "B," slide tracks into bracket, drop bent ends of clamp "B" into holes in top of tracks and tighten nut "A."

No other track and brackets on the market have this super feature overcoming a difficulty of long standing.



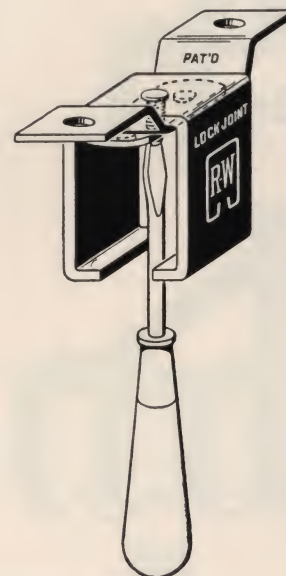
No. 059

How to Apply Lock-Joint Brackets (Nos. 059, 079 and 189) To Standard Size Trolley Track

No. 059. Loosen the clamp screw with screw driver as shown. Slide the tracks into place. Draw clamps into holes in top of track and tighten the clamp screw.

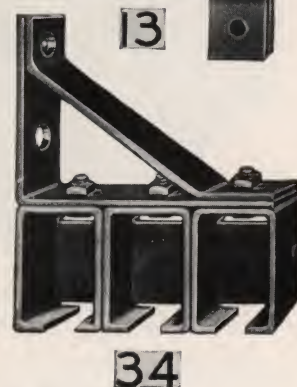
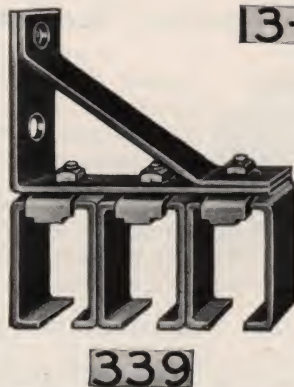
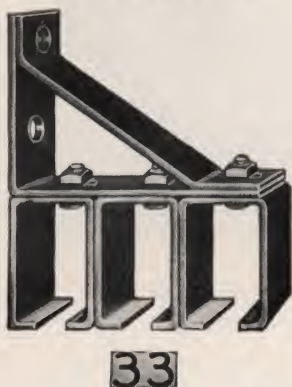
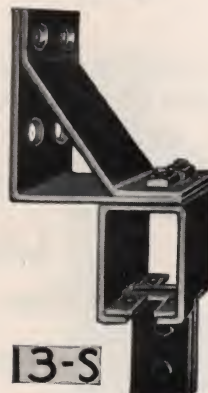
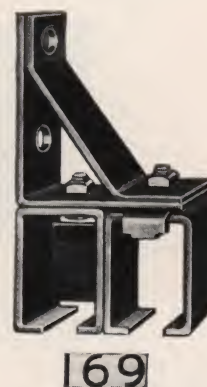
No. 079. Loosen the clamp screw with screw driver as shown. Slide the tracks into place. Draw the lugs on clamp into holes in top of track and tighten the clamp screw.

No. 189. Slide tracks into place, draw lugs on clamp into holes in top of tracks and tighten bolt which holds bracket in place.



No. 079

Sidewall Brackets—For Standard "Lock-Joint" Trolley Track



Above numbers are style numbers only. Track number must be given also.
Bracket dimensions shown on following pages.

Sidewall Style Trolley Track Brackets

Brackets to the Left Illustrate Style Only

For General Dimensional Information See Pages 96 to 111

Certified Template Drawings Are Available Upon Request

Bracket Styles for Overhead Attachment Shown on Pages 94 to 95

Table Below Covers the Brackets Illustrated on the Opposite Page

Bracket Number and Description Table, with Weight, Each, in Pounds

Style No.	Description	For Trolley Track Number									
		30	30 1/2	31 75	32	33	35	533	232	233	375
1	Center Bracket.....	1 1/2	3/4	3/4	1 1/2	2 1/2	3/4	6	2	6	4 1/2
2	End Bracket.....	1 1/2	3/4	3/4	1 1/2	2 1/2	3/4	6 1/2	2	6 1/2	4 3/4
12	Center Stop Bracket.....	1 1/2	1 3/4	2	3 1/4	5 1/2	2	9 1/4	4 1/4	8 1/2	.....
13	Half Center Stop Bracket.....	3	5	6 1/2	8 1/2	12 3/4	6 1/2	22 1/2	12 1/2	18 1/2	19
13-S	Special Center Stop Bracket.....	2 1/2	4 1/4	5 1/2	7	8 1/4	5 1/2	16	10 3/4	13	14
22	Center Bracket.....	1	2 1/4	2 3/4	4 1/4	7	2 3/4	18 1/2	6	17 1/2	11
22-S	Special Center Bracket.....	3/4	1 1/2	1 3/4	2 3/4	5 3/4	1 3/4	13	3 3/4	12	7
23	End Bracket.....	1 1/4	2 3/4	3 1/4	4 1/2	7 1/2	3 1/4	19 1/2	6 1/2	18	11 1/2
23-S	Special End Bracket.....	3/4	1 1/2	1 3/4	2 3/4	6	1 3/4	14	4	13	7 1/2
26	Center Bracket.....	1 1/2	3/4	1	.....	.....	.....	.....	.....	.....	.....
27	End Bracket.....	1 1/2	3/4	1	.....	.....	.....	.....	.....	.....	.....
33	Center Bracket.....	1 1/2	2 3/4	4 1/4	5 1/2	10 1/2	4 1/4	28 3/4	8 3/4	26 1/2	15 3/4
34	End Bracket.....	1 3/4	3	4 3/4	6	10 3/4	4 3/4	29	9 1/4	27 1/4	16 1/2
39	Lock-Joint Bracket.....	1 1/2	3/4	1	1 3/4	3	1	7	2 1/2	6 3/4	4 3/4
169	Lock-Joint Bracket.....	1 1/4	2 3/4	3 1/4	4 1/2	7 1/2	3 1/4	20	6 1/2	19	11 1/2
229	Lock-Joint Bracket.....	1 1/4	2 1/2	3 1/2	4 3/4	7 3/4	3 1/2	19	6 3/4	18 1/2	11
269	Lock-Joint Bracket.....	3/4	1	1 1/4	.....	.....	.....	.....	.....	.....	.....
339	Lock-Joint Bracket.....	1 3/4	3 1/2	5 1/4	6	11 1/2	5 1/4	.....	.....	.....	.....

..... Not made for this track.

Directions for Ordering

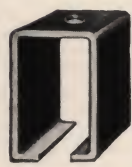
1. Give catalog number and quantity of the style bracket desired.
2. Specify catalog number of track.
3. State finish (gray enamel or galvanized).
(Gray enamel regular, galvanized available when specified, at an extra cost.)

Example

Four No. 2 Style Brackets for use on No. 30 Track are wanted with a gray finish. The order would read as follows: 4—No. 2 x 30 Brackets, gray finish.

Trolley tracks shown on pages 40-43.

Overhead Brackets For Standard "Lock-Joint" Trolley Track



18



189



19



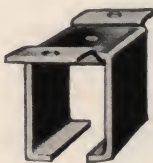
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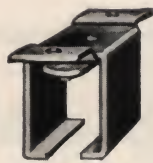
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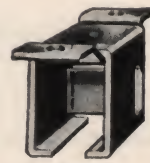
20



7



079



8



10



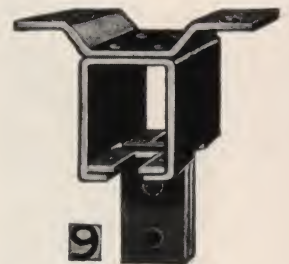
5



059



6



9



41



47



42



29



299



30



319



31



32

Above numbers are style numbers only. Track number must be given also.

Bracket dimensions shown on following pages.

Overhead Style Trolley Track Brackets

Brackets to the Left Illustrate Style Only

For General Dimensional Information See Pages 96 to 111

Certified Template Drawings Are Available Upon Request

Bracket Styles for Sidewall Attachment Shown on Page 92 to 93

Table Below Covers the Brackets Illustrated on the Opposite Page

Bracket Number and Description Table, with Weight, Each, in Pounds

Style No.	Description	For Trolley Track Number									
		30	30 1/2	31 7/8	32	33	35	533	232	233	375
059	Lock-Joint Bracket.....	1/2	3/4	1 1/2	2 1/2	4	1 1/2	8 1/4	3	7 3/4	4 3/4
079	Lock-Joint Bracket.....	1/2	3/4	1 3/4	2	4	1 3/4	8 1/4	3	7 1/4	4 3/4
3	Split Center Bracket.....	1/2	3/4	1	2	3 1/2	1	.....	2 1/2	.....	.....
5	Center Bracket.....	1/4	1/2	1 1/2	1 3/4	3 3/4	1 1/2	8 1/4	2 1/2	6 3/4	4
6	End Bracket.....	1/4	1/2	1 1/2	1 3/4	4	1 1/2	8 1/2	2 3/4	7	4 1/2
7	Center Bracket.....	1/2	3/4	1 1/4	1 1/2	3	1 1/4	7 1/4	2 1/4	7	4
8	End Bracket.....	1/2	3/4	1 1/4	1 3/4	3 1/2	1 1/4	7 1/2	2 1/2	7 1/4	4 1/2
9	Center Stop Bracket.....	.....	2	3	3 1/4	7	3	10 1/2	6	9 1/2	.....
10	Center Stop Bracket.....	.....	1 3/4	2 1/4	3 1/4	6	2 1/4	10 3/4	5 1/4	9	.....
11	Center Stop Bracket.....	.....	1/2	2	2 3/4	5	2	8 3/4	4 1/4	7 1/2	5 1/2
18	Center Bracket.....	1/4	1/2	1 1/4	1 1/2	3 1/2	1 1/4	5 1/4	1 3/4	5	4 1/2
19	End Bracket.....	1/4	1/2	1 1/4	1 1/2	3 3/4	1 1/4	6	2	5 1/2	4 3/4
20	Split End Bracket.....	1/2	3/4	1 1/4	2 1/4	3 3/4	1 1/4	.....	2 3/4	.....	.....
29	Center Bracket.....	3/4	1 1/4	3 1/4	4 1/2	7 1/2	3 1/4	15 1/2	6	15	10 1/2
30	End Bracket.....	1	1 1/2	3	5	7 3/4	3	16 1/2	6 1/2	15 1/2	11 1/2
31	Center Bracket.....	1 1/4	2	4 1/2	6	12 1/2	4 1/2	22 3/4	8 1/2	21 3/4	14
32	End Bracket.....	1 1/2	2 1/2	4 3/4	6 1/2	13	4 3/4	23 3/4	9	23	14 1/2
41	I-Beam Center Bracket.....	.....	.....	2	3	5 1/4	2	8 1/2	4	7 1/2	6
42	I-Beam End Bracket.....	.....	.....	2 1/4	3 1/4	5 1/2	2 1/4	8 3/4	4 1/4	7 3/4	6 1/2
47	Lock-Joint I-Beam Bracket.....	.....	.....	3	5	8	3	10	.....	.....	8 1/4
189	Lock-Joint Bracket.....	1/2	3/4	1 1/2	1 3/4	3 3/4	1 1/2	5 3/4	2 1/4	5 3/4	4 3/4
299	Lock-Joint Bracket.....	1 1/4	1 3/4	3 1/4	5 1/4	8 1/4	3 1/4	16 1/2	6 1/2	16	10 3/4
319	Lock-Joint Bracket.....	1 3/4	2 1/2	5	6 1/2	13	5	24	9	22 1/2	14 1/2

.....Not made for this track.

Directions for Ordering

1. Give catalog number and quantity of the style bracket desired.
2. Specify catalog number of track.
3. State finish (gray enamel or galvanized).
(Gray enamel regular, galvanized available when specified, at an extra cost).

Example

Four No. 3 Style Brackets for use on No. 31 Track are wanted with a gray finish. The order would read as follows: 4—No. 3 x 31 Brackets, gray enamel.

Trolley tracks shown on pages 40-43.

Dimensions of Overhead and Sidewall Brackets for No. 30 "Lock-Joint" Trolley Track



* Locate No. 2 end Bracket to permit track to enter Bracket $1\frac{1}{6}$ ".

* Locate Nos. 6, 8, 19, 23, 23 "S", 30, 32, 34, 169 end Bracket to permit track to enter Bracket $1\frac{13}{16}$ ".

† Locate No. 27 end Bracket to permit track to enter Bracket $1\frac{1}{8}$ ".

Trolley track shown on pages 40-43—bracket weight table, pages 93-95.

Richards-Wilcox

Dimensions of Overhead and Sidewall Brackets for No. 30½ "Lock-Joint" Trolley Track



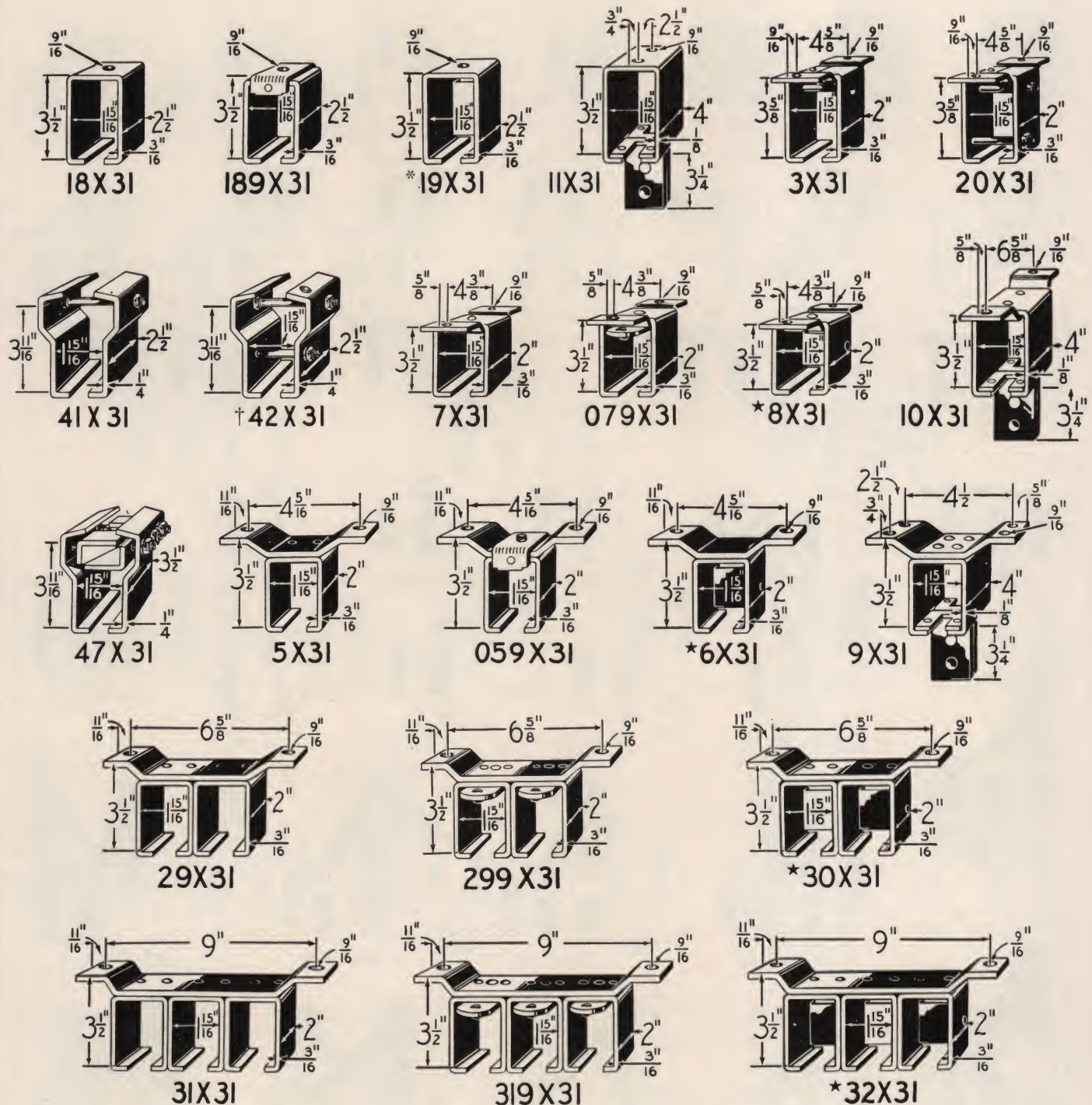
* Locate No. 2 end Bracket to permit track to enter Bracket 1⅜".

* Locate Nos. 6, 8, 30, 32 end Bracket to permit track to enter Bracket 1¼".

† Locate Nos. 19, 23, 23 "S", 27, 34, 169 end Bracket to permit track to enter Bracket 1½".

Trolley track shown on pages 40-43—bracket weight table, pages 93-95.

Dimensions of Overhead Brackets for Nos. 31, 35 and 75 "Lock-Joint" Trolley Tracks



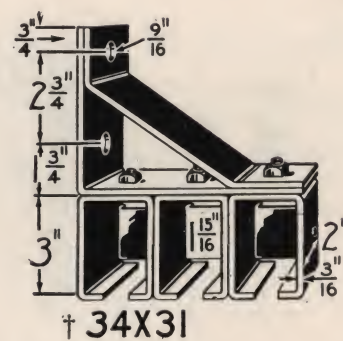
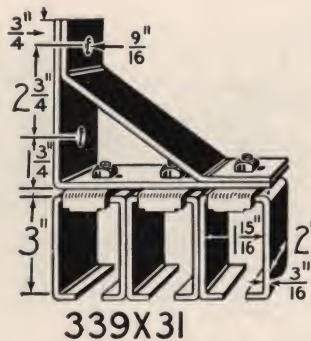
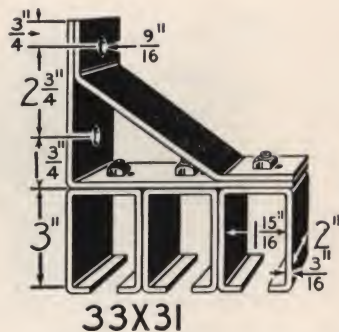
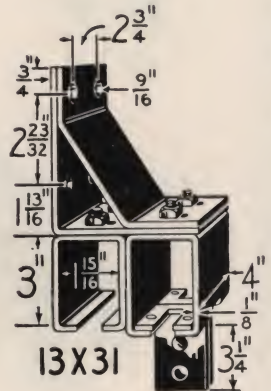
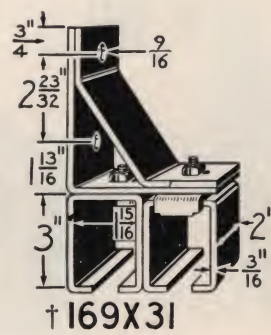
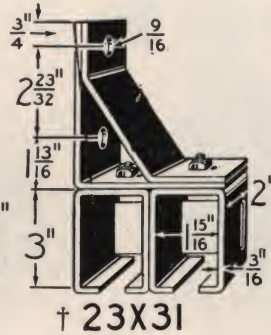
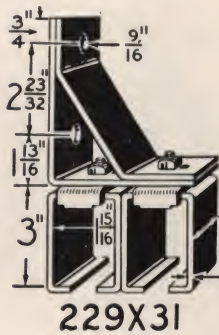
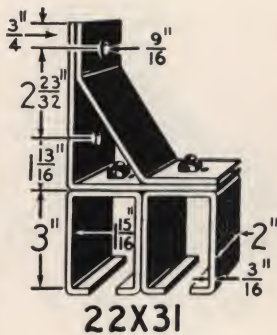
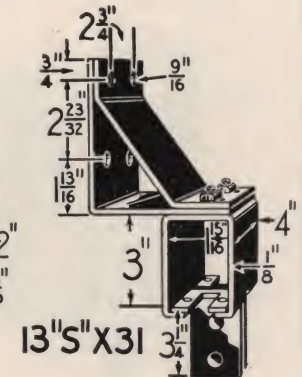
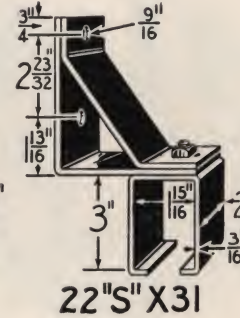
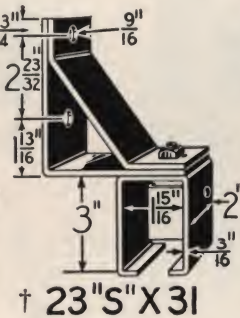
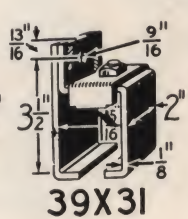
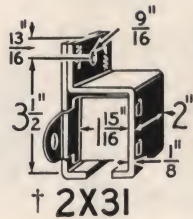
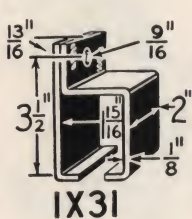
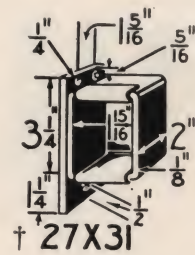
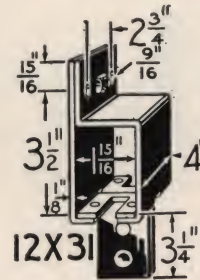
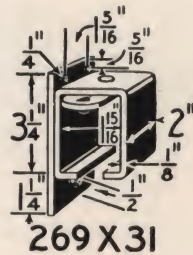
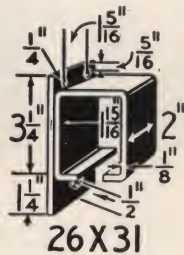
* Locate Nos. 6, 8, 32, 30 end Bracket to permit track to enter Bracket $1\frac{5}{8}$ ".

* Locate No. 19 end Bracket to permit track to enter Bracket $2\frac{1}{8}$ ".

† Locate No. 42 end Bracket to permit track to enter Bracket $1\frac{1}{4}$ ".

Dimensions of Sidewall Brackets for Nos. 31, 35 and 75 "Lock-Joint" Trolley Tracks

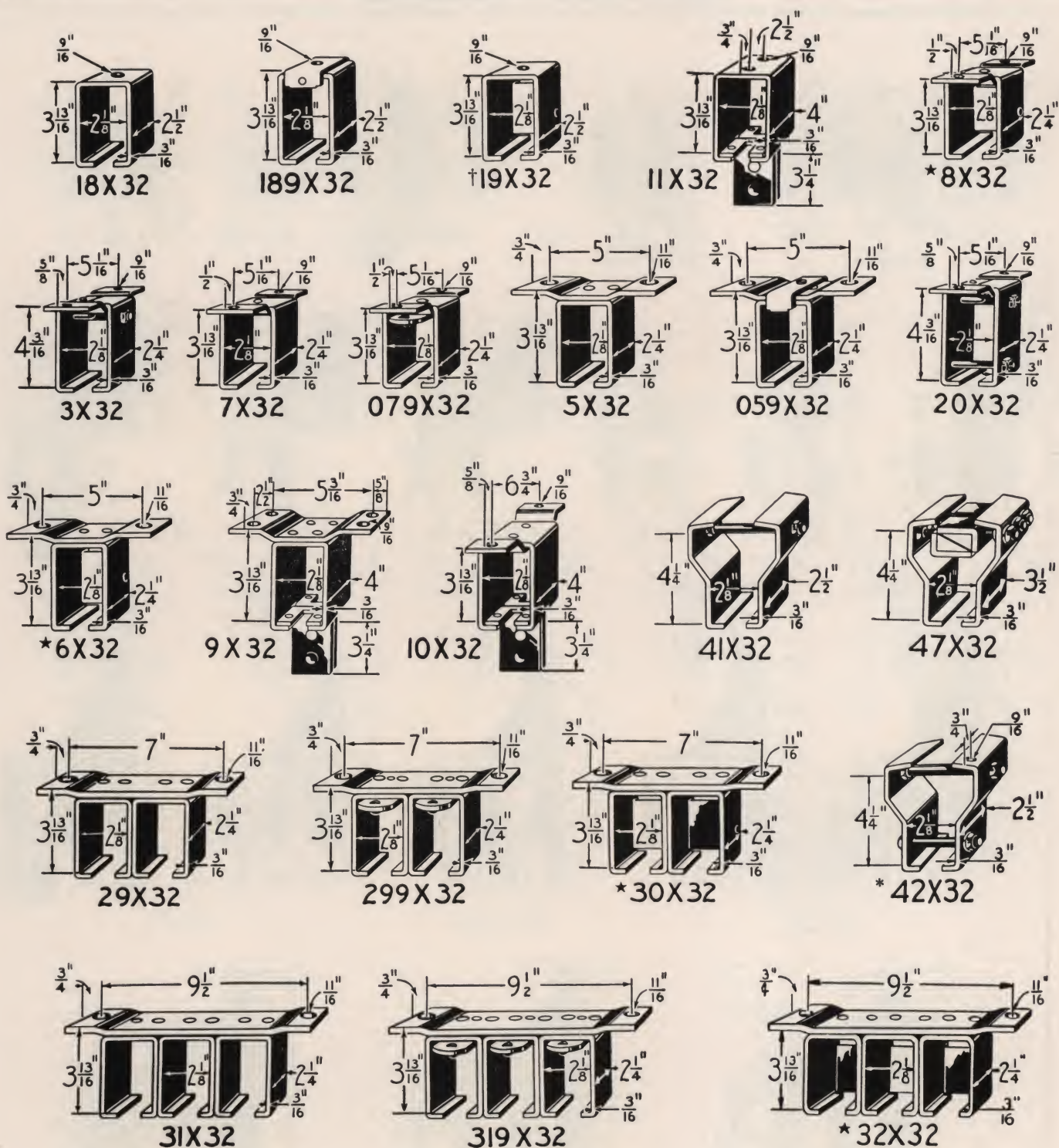
No. 35 Track Brackets have the same dimensions as shown below except the Nos. 12 and 13 types, where the 3-1/4" dimension is changed to 3-1/8".



† Locate Nos. 2, 34, 23, 23 "S", 27, 169 end Bracket to permit track to enter Bracket 15/8".

Trolley track shown on pages 40-43—bracket weight table, pages 93-95.

Dimensions of Overhead Brackets for No. 32 "Lock-Joint" Trolley Track



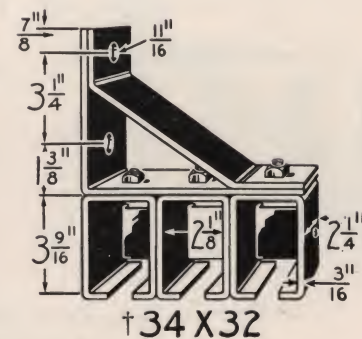
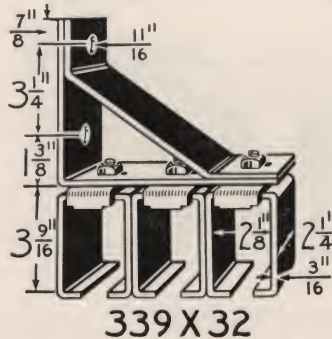
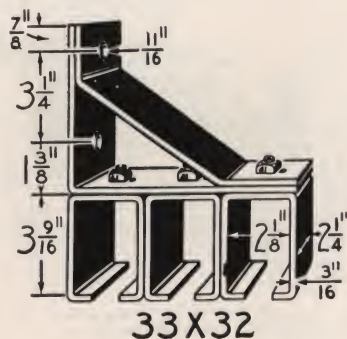
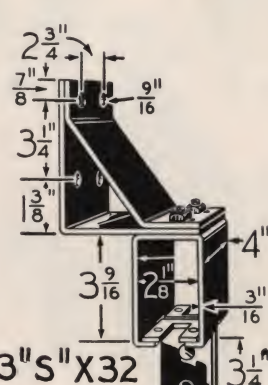
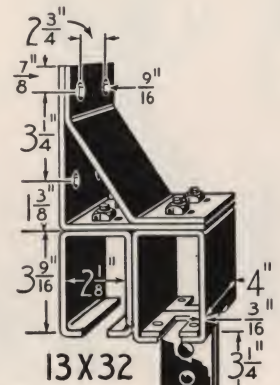
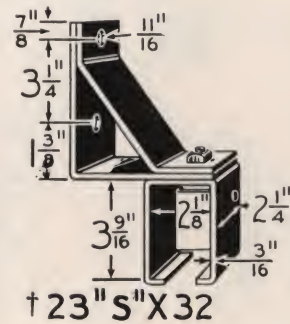
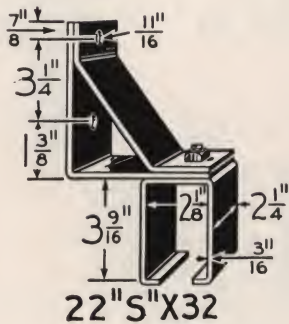
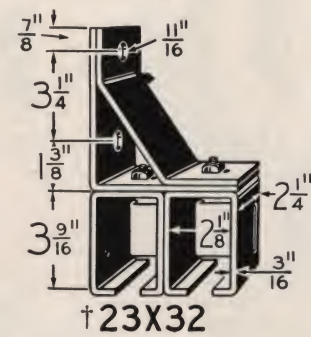
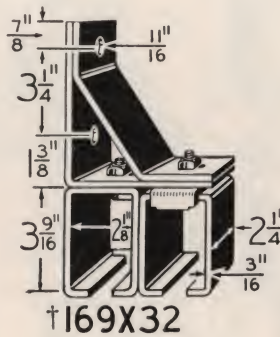
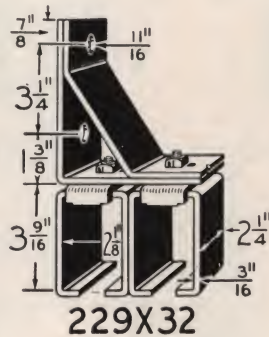
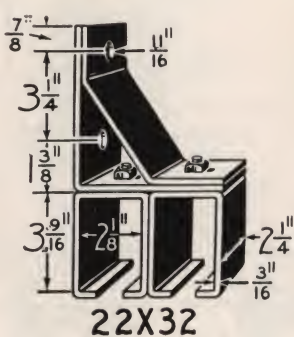
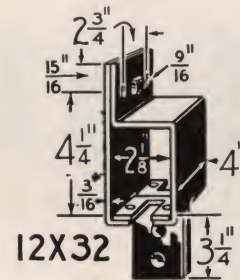
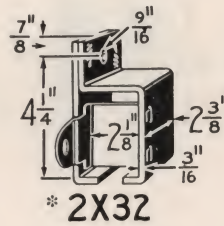
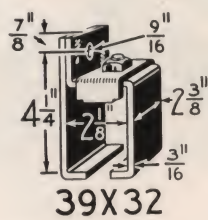
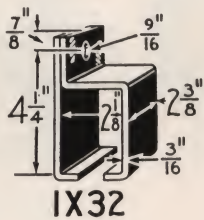
* Locate Nos. 6, 8, 30, 32 end Bracket to permit track to enter Bracket 1 7/8".

* Locate No. 42 end Bracket to permit track to enter Bracket 1 1/4".

† Locate No. 19 end Bracket to permit track to enter Bracket 2 1/8".

Trolley track shown on pages 40-43—bracket weight table, pages 93-95.

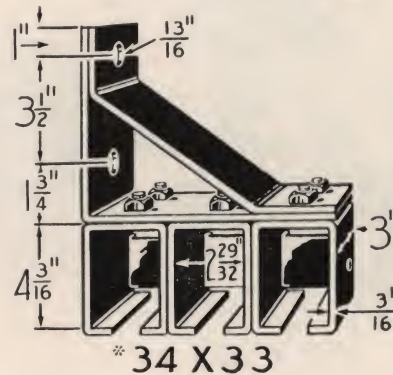
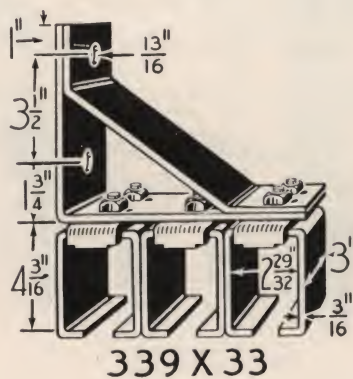
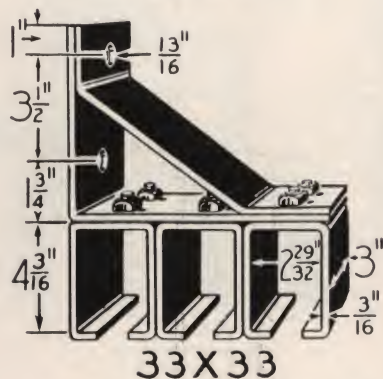
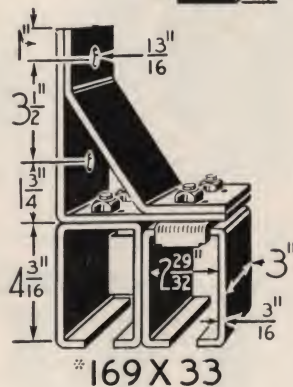
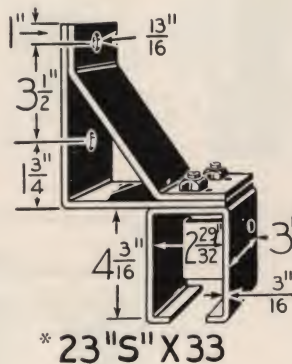
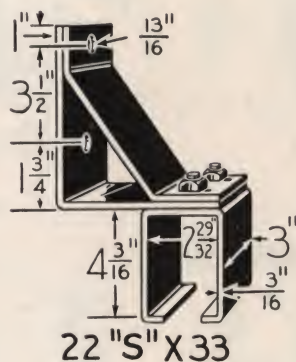
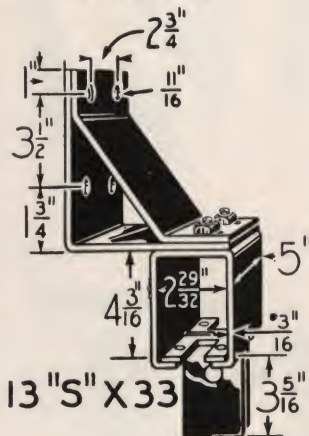
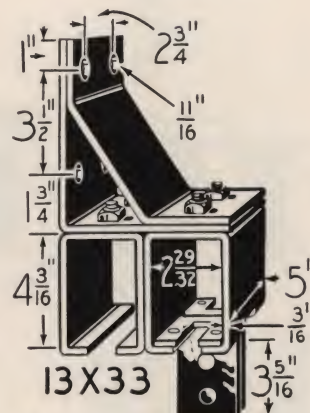
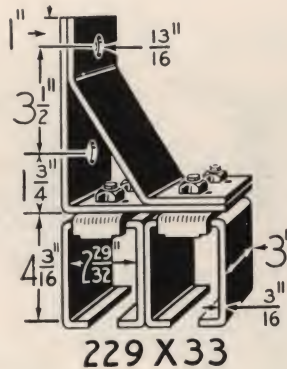
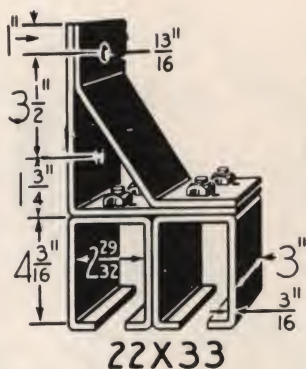
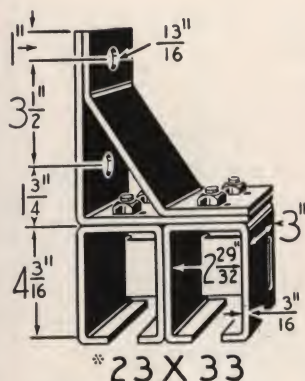
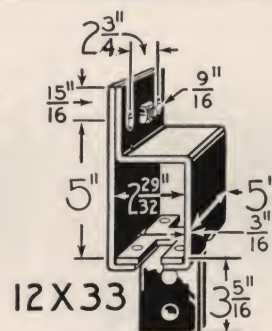
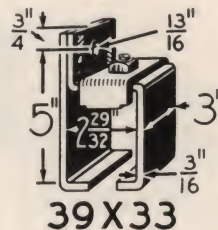
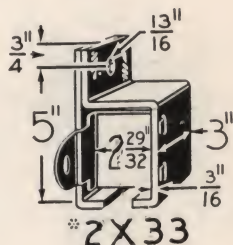
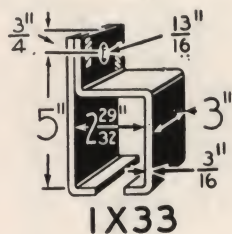
Dimensions of Sidewall Brackets for No. 32 "Lock-Joint" Trolley Track



* Locate No. 2 end Bracket to permit track to enter Bracket 2".

† Locate Nos. 23, 23 "S", 34, 169 end Bracket to permit track to enter Bracket 17/8".

Dimensions of Sidewall Brackets for No. 33 "Lock-Joint" Trolley Track



* Locate Nos. 2, 23, 23 "S", 34, 169 end Bracket to permit track to enter Bracket 2 5/8".

Dimensions of Overhead Brackets for No. 533 "Lock-Joint" Trolley Track



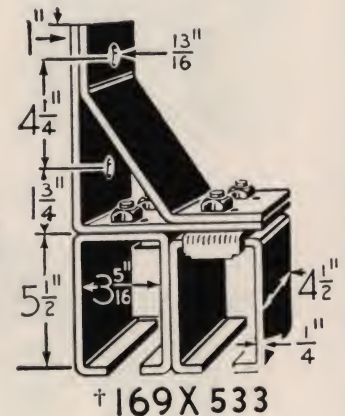
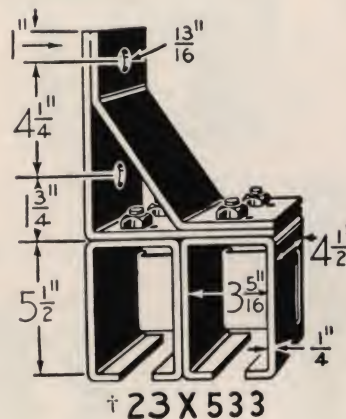
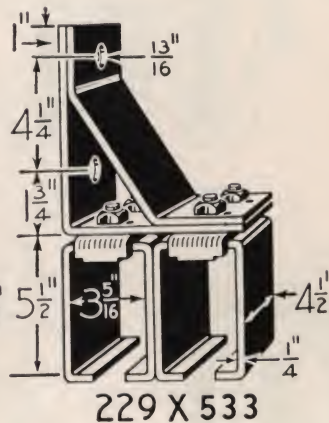
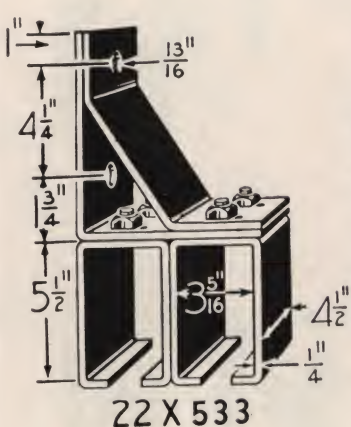
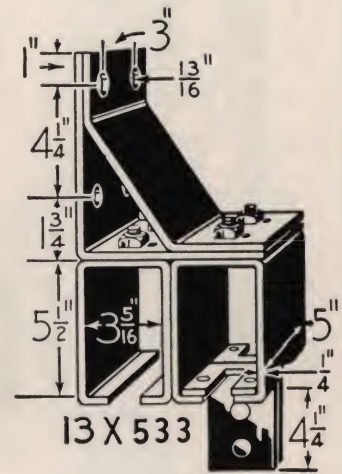
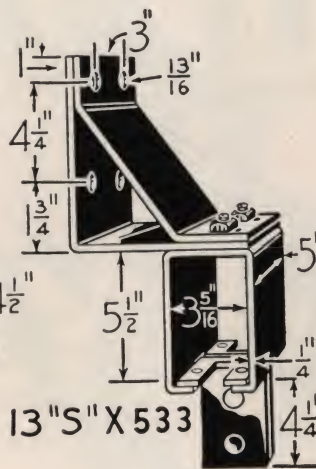
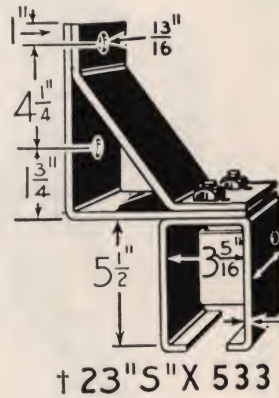
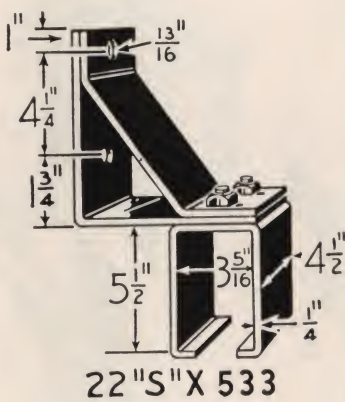
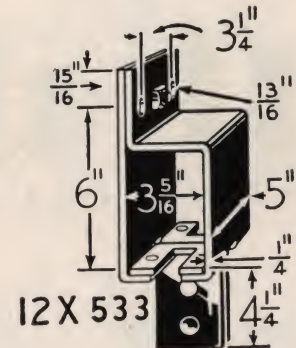
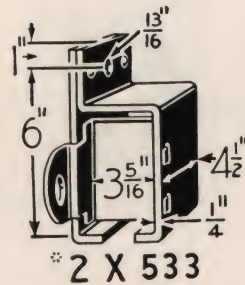
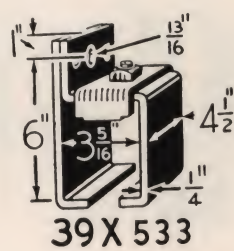
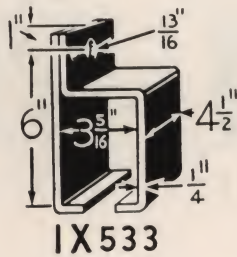
* Locate Nos. 6, 8, 19 end Bracket to permit track to enter Bracket 3 1/4".

† Locate Nos. 30, 32 end Bracket to permit track to enter Bracket 2 3/4".

† Locate No. 42 end Bracket to permit track to enter Bracket 3 3/8".

Trolley track shown on pages 40-43—bracket weight table, pages 93-95.

Dimensions of Sidewall Brackets for No. 533 "Lock-Joint" Trolley Track

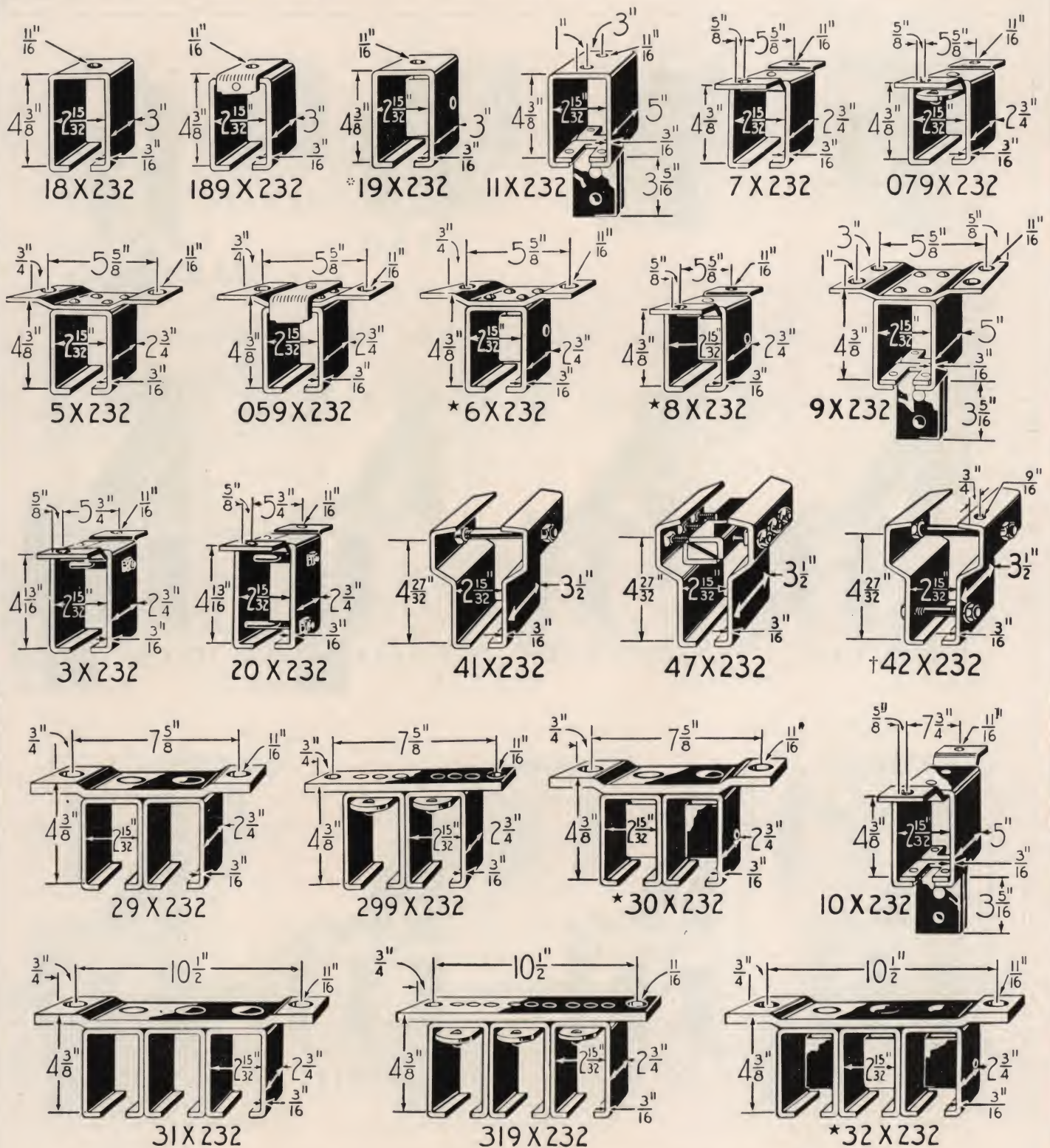


* Locate No. 2 end Bracket to permit track to enter Bracket 4".

† Locate Nos. 23, 23 "S", 169 end Bracket to permit track to enter Bracket 3 1/4".

Trolley track shown on pages 40-43—bracket weight table, pages 93-95.

Dimensions of Overhead Brackets for No. 232 "Lock-Joint" Trolley Track



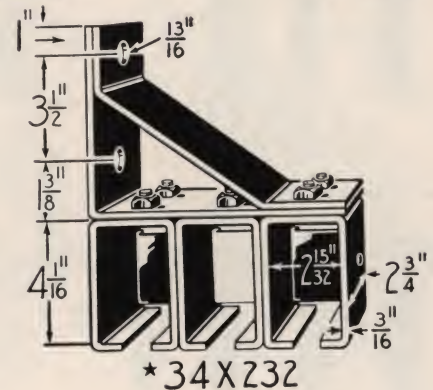
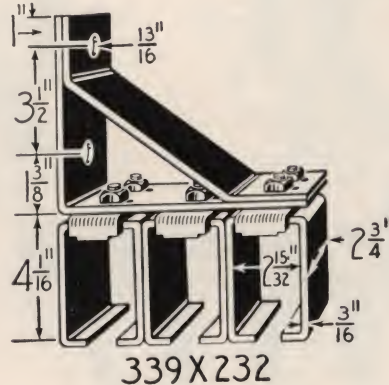
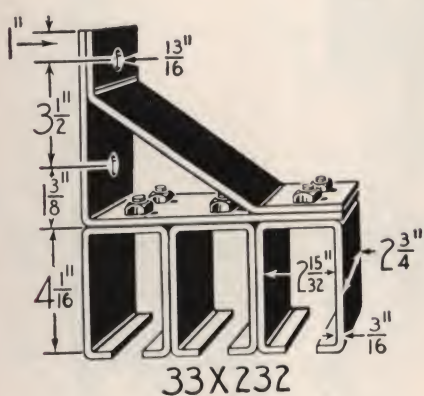
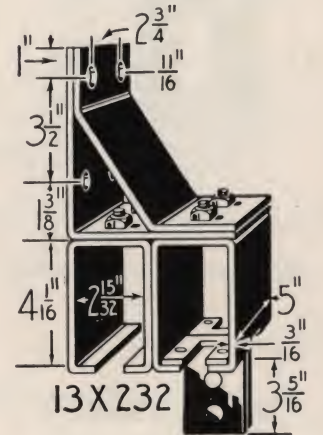
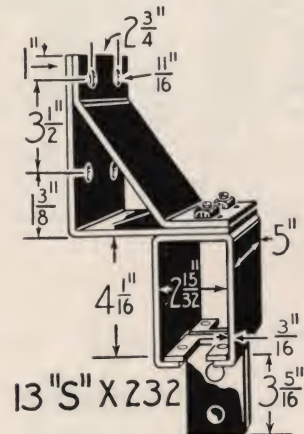
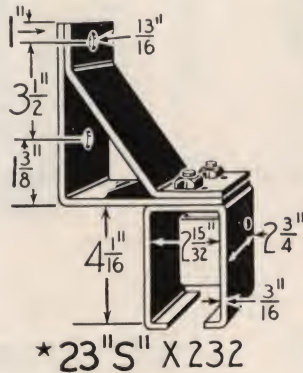
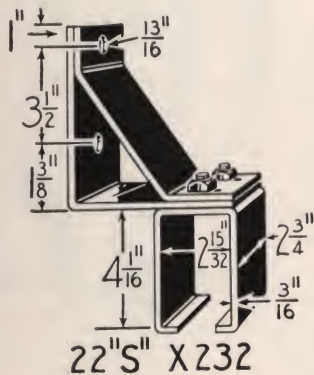
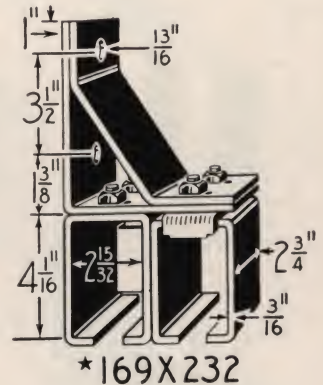
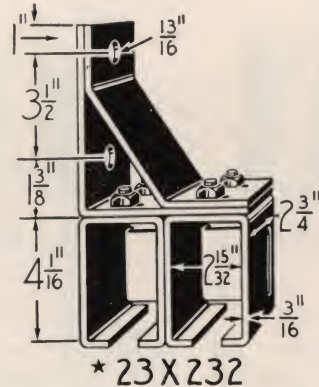
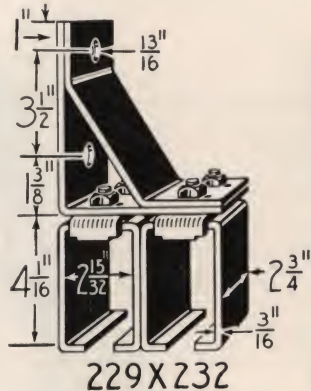
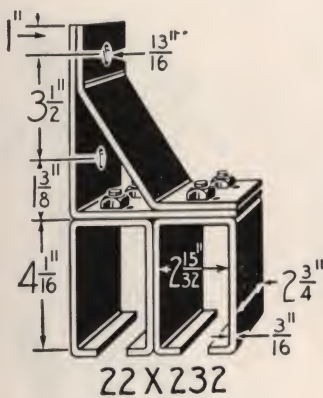
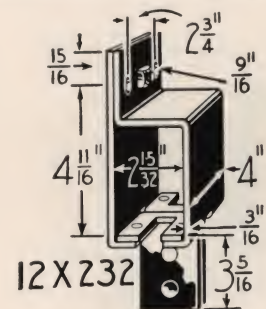
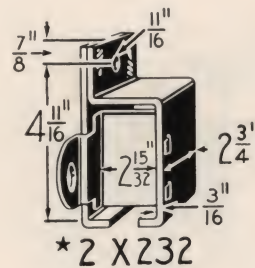
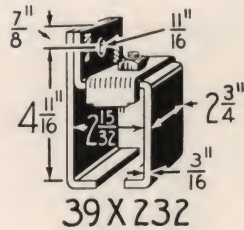
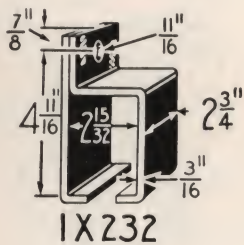
* Locate Nos. 6, 8, 30, 32 end Bracket to permit track to enter Bracket $2\frac{1}{4}$ ".

‡ Locate No. 19 end Bracket to permit track to enter Bracket $2\frac{1}{2}$ ".

† Locate No. 42 end Bracket to permit track to enter Bracket $2\frac{3}{8}$ ".

Trolley track shown on pages 40-43—bracket weight table, pages 93-95.

Dimensions of Sidewall Brackets for No. 232 "Lock-Joint" Trolley Track



* Locate Nos. 2, 23, 23 "S", 34, 169 end Bracket to permit track to enter Bracket 2 1/4".

Trolley track shown on pages 40-43—bracket weight table, pages 93-95.

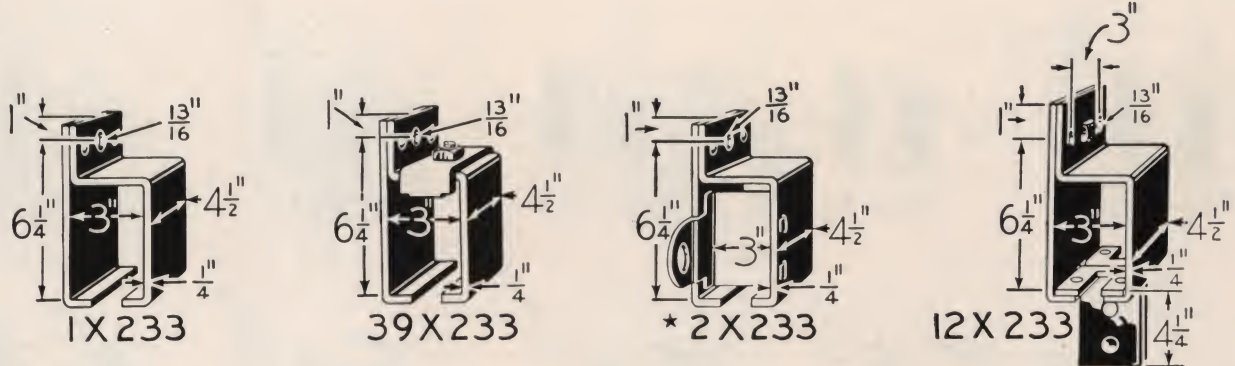
Dimensions of Overhead Brackets for No. 233 "Lock-Joint" Trolley Track



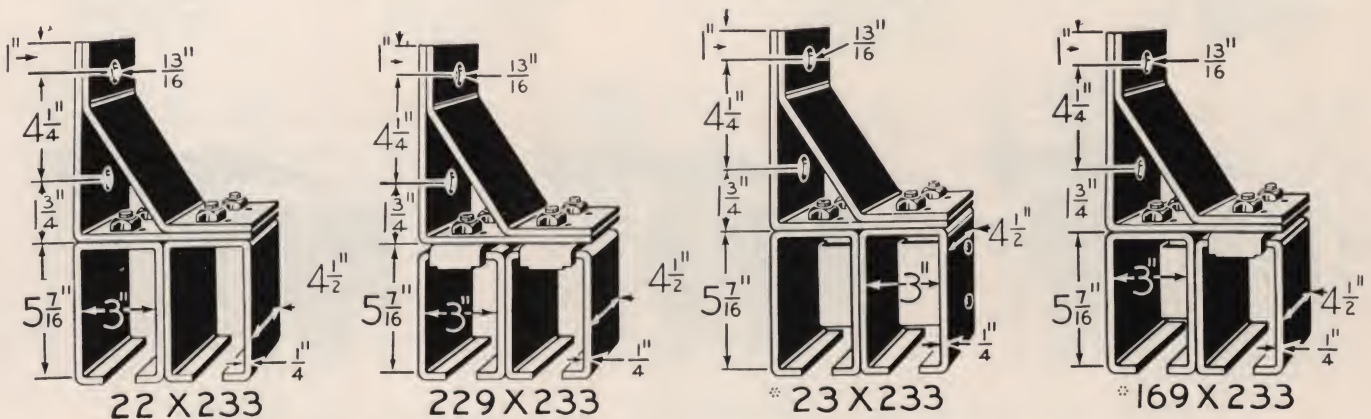
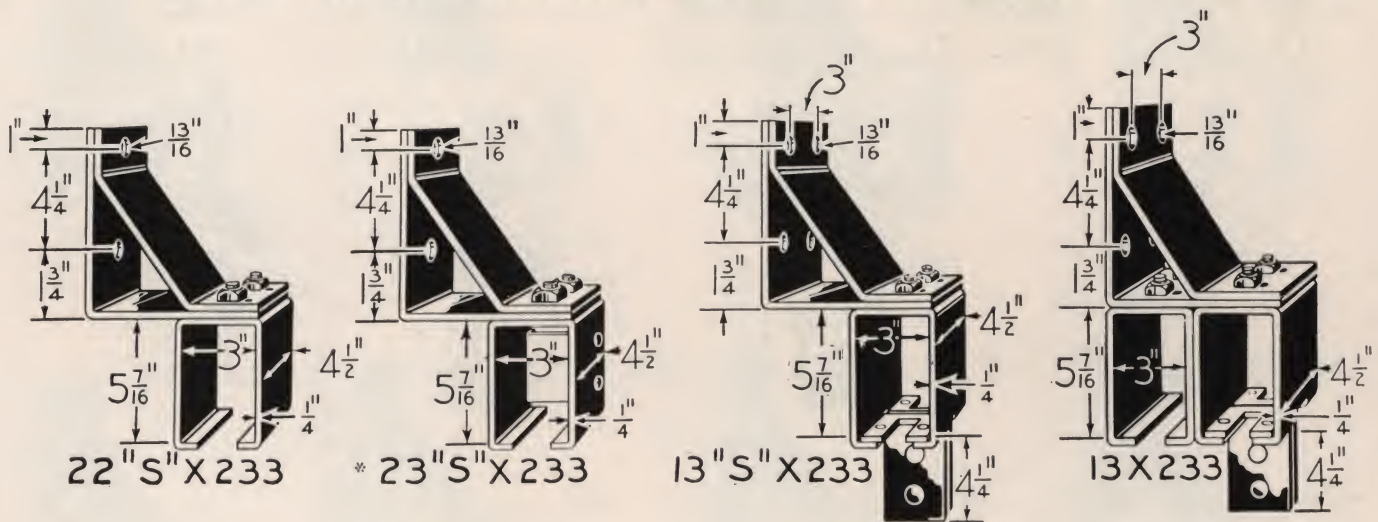
* Locate Nos. 6, 8, 19, 30, 32, 42 end Bracket to permit track to enter Bracket $3\frac{3}{8}"$.

Trolley track shown on pages 40-43—bracket weight table, pages 93-95.

Dimensions of Sidewall Brackets for No. 233 "Lock-Joint" Trolley Track



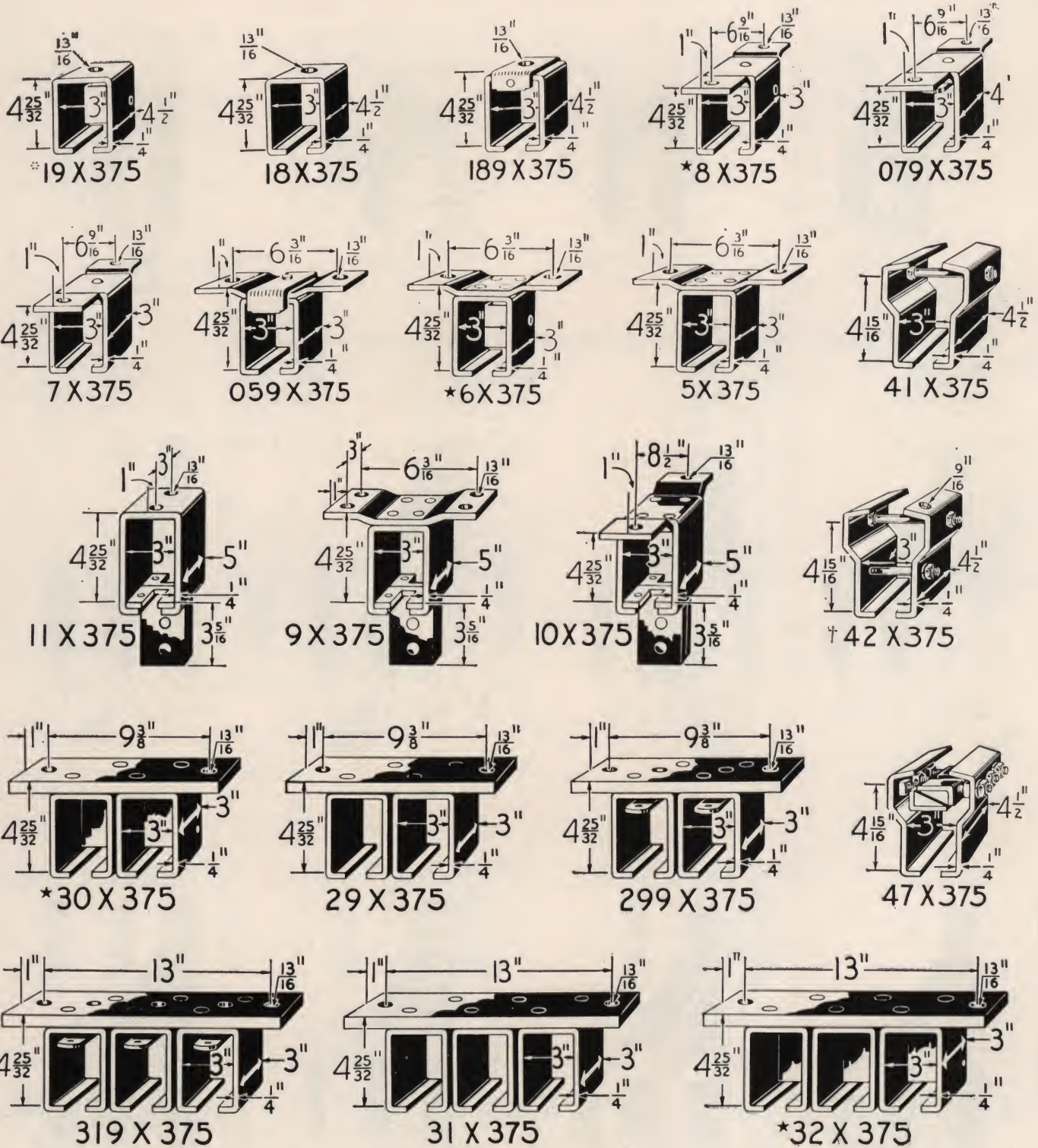
* Locate No. 2 end Bracket to permit track to enter Bracket 4".



* Locate Nos. 23, 23 "S", 169 end Bracket to permit track to enter Bracket 3 3/8".

Trolley track shown on pages 40-43—bracket weight table, pages 93-95.

Dimensions of Overhead Brackets for No. 375 "Lock-Joint" Trolley Track



* Locate Nos. 6, 8, 30, 32 end Bracket to permit track to enter Bracket $2\frac{1}{8}$ ".

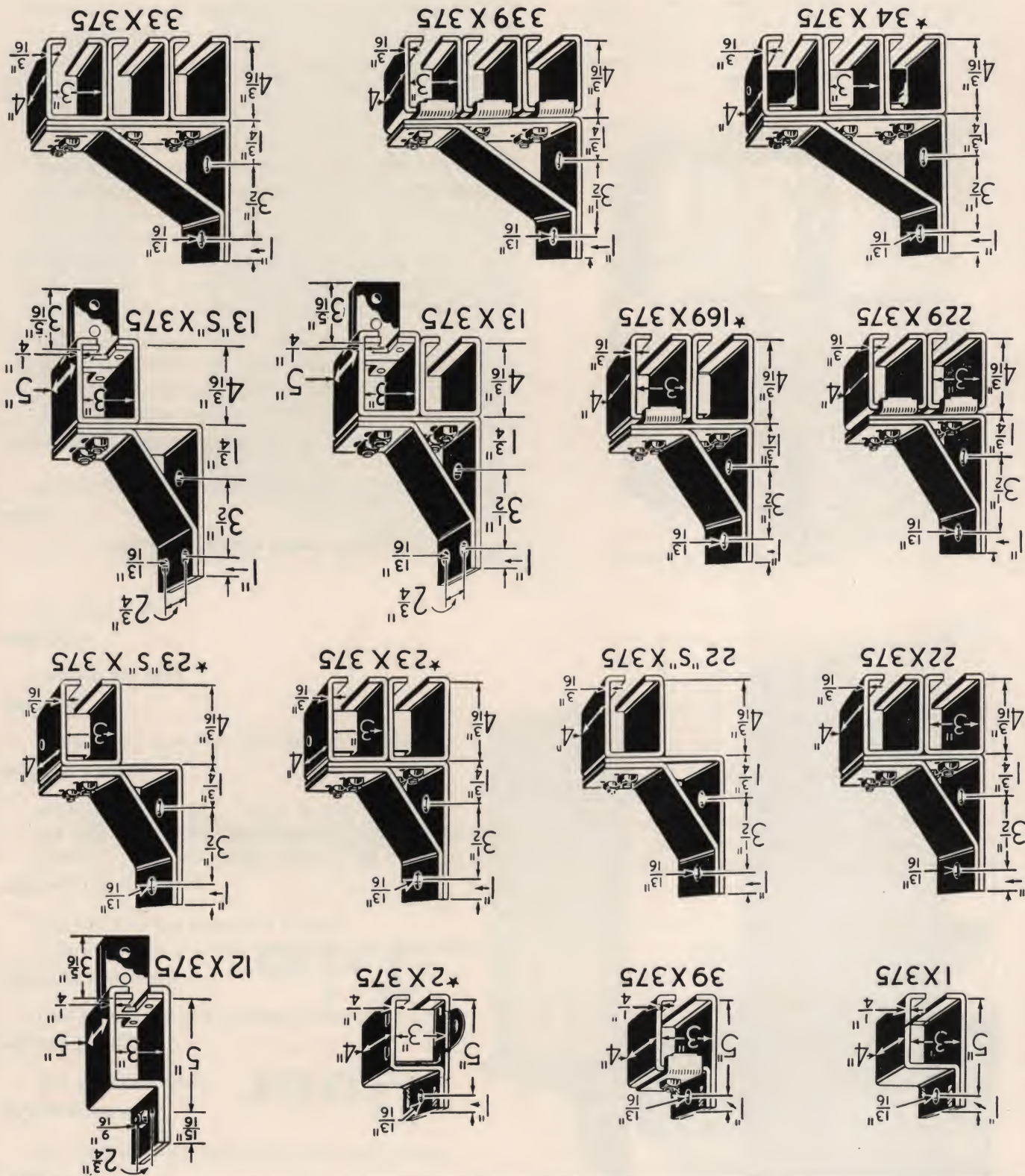
* Locate No. 19 end Bracket to permit track to enter Bracket $3\frac{5}{8}$ ".

† Locate No. 42 end Bracket to permit track to enter Bracket $3\frac{3}{8}$ ".

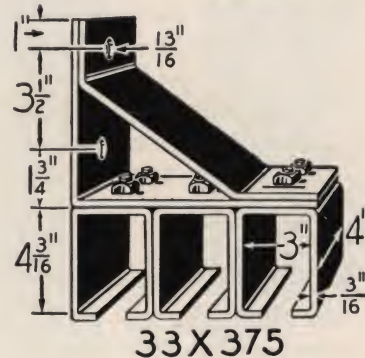
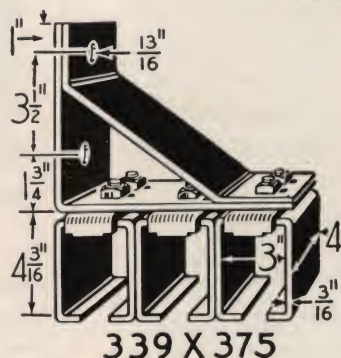
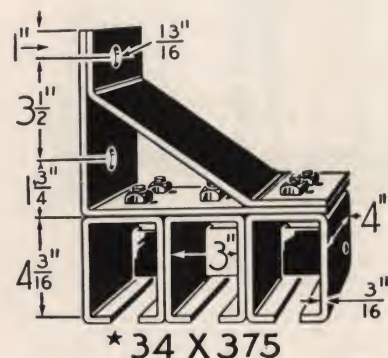
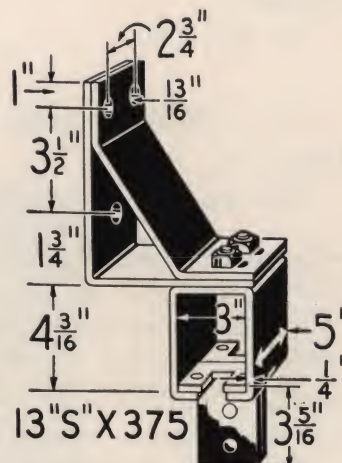
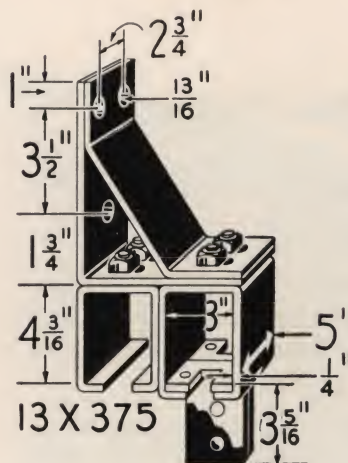
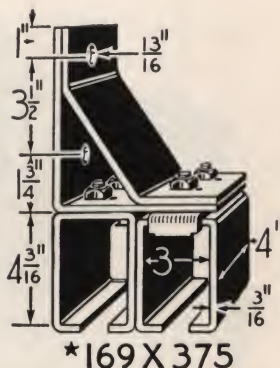
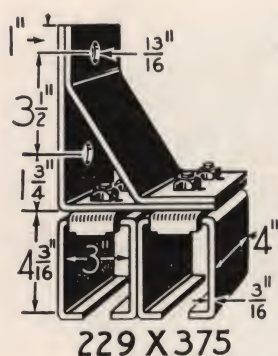
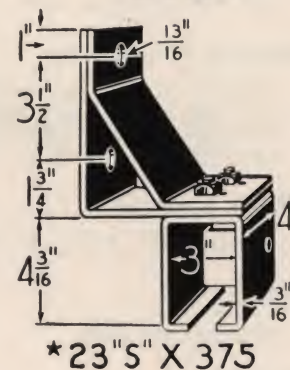
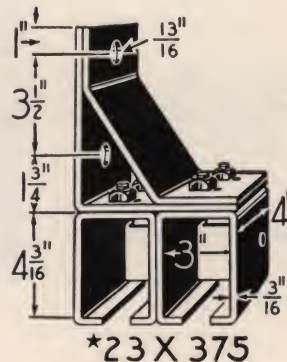
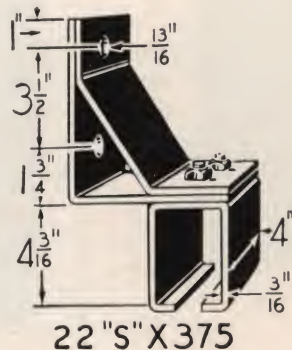
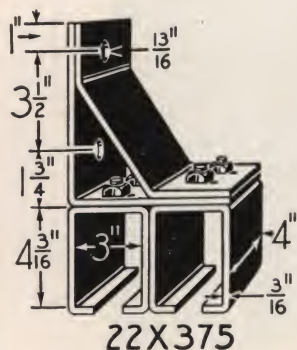
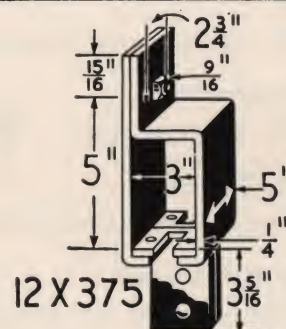
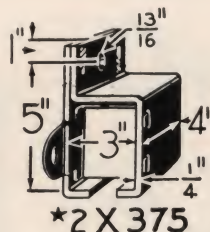
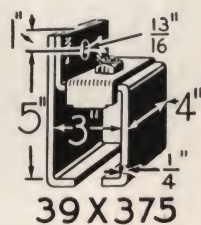
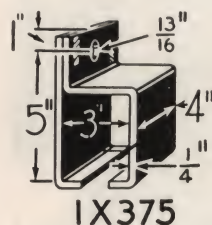
Trolley track shown on pages 40-43—bracket weight table, pages 93-95.

Dimensions of Sidelwall Brackets for No. 375 "Lock-Joint" Trolley Track

*Locate Nos. 2, 23, 23 "S", 34, 169 end Bracket to permit track to enter Bracket 31/8".



Dimensions of Sidewall Brackets for No. 375 "Lock-Joint" Trolley Track



* Locate Nos. 2, 23, 23 "S", 34, 169 end Bracket to permit track to enter Bracket $3\frac{1}{8}$ ".

No. 296 Galvanized Housing

•Use

For weather and bird-proof track installation.

•Construction

No. 22 gauge steel.

•Installation

Can be placed over old track already erected.

•Extras Included

Cap furnished for each joint plus one right and one left end housing blind and screws.

•Length of Housing

Length of housing should equal twice width of opening plus 3" to provide space for housing blinds on each end.

•Stock Lengths

Made in 4', 4' 3", 6', 8', and 10' lengths.

•Finish

Galvanized only.

•Weight

Per foot, 1 lb.

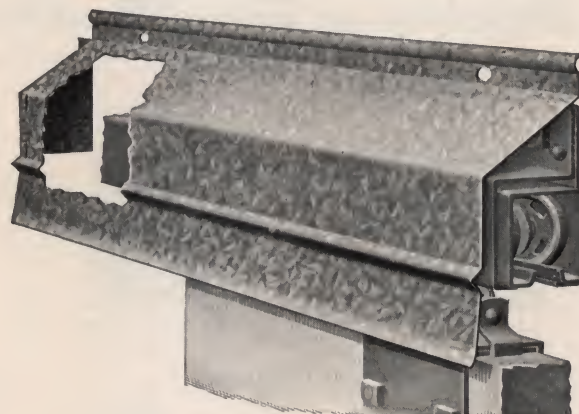


Table Showing Proper Housing to Specify for Various Hangers and Track

Housing Number for Single Track	For Track Number	Using Hanger Number
296-3	35	421
	31	20½B; 20-2; 25; 27½B; 621; 921
	32	28½B; 28-V
296-7	232	29-V; 29½B
	33	121; 123½B; 150; 150½B

Sliding Gable Door Fixtures

•Use

For double sliding doors in gable of barn.

•Operation (See Illustration at Right)

Track mounted parallel with roof. Hangers attached same as on any door. Each door counterbalanced by weights attached to steel cable which passes over two cable pulleys located above each door.

Doors raised or lowered easily permitting use of entire or part of opening as desired. Steel guide holds bottom of door against building when closed and acts as guide and stop when open. Weights can be of any convenient material. Concrete weighs 137 lbs. per cubic foot. Where 2 x 6 studding is used, weights should be 8" wide, 5" thick, and height according to weight of door.

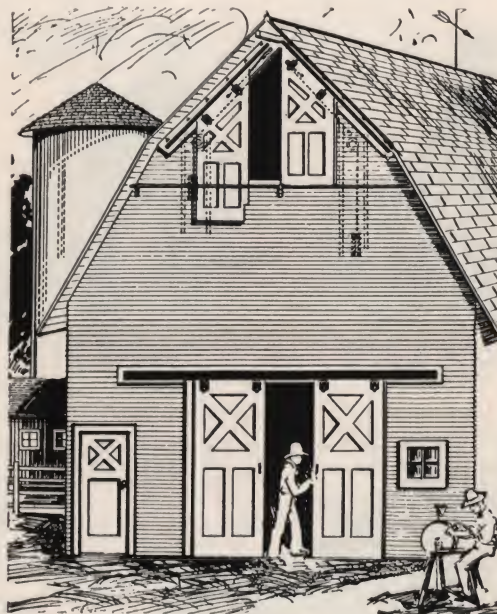
•Sets

Furnished complete with all necessary hardware.

No. 278 x 31 sets for doors up to 300 lbs. No. 20 hangers, No. 31 track with No. 1 x 31 and No. 2 x 31 brackets.

•Weight

See table at right.



Weight Table

278 x 31-6	278 x 31-7	278 x 31-8	278 x 31-9	278 x 31-10	278 x 31-12
6-Foot Opening	7-Foot Opening	8-Foot Opening	9-Foot Opening	10-Foot Opening	12-Foot Opening
60 lbs.	65 lbs.	70 lbs.	75 lbs.	80 lbs.	85 lbs.



Door Trim Hardware



For Correct "Hand" of R-W Doors See Page 2

Panic Bolts for Single Swing Doors

Inspected And Approved By The Underwriters' Laboratories, Inc., Listed Under Reexamination Service . . . Exit Devices

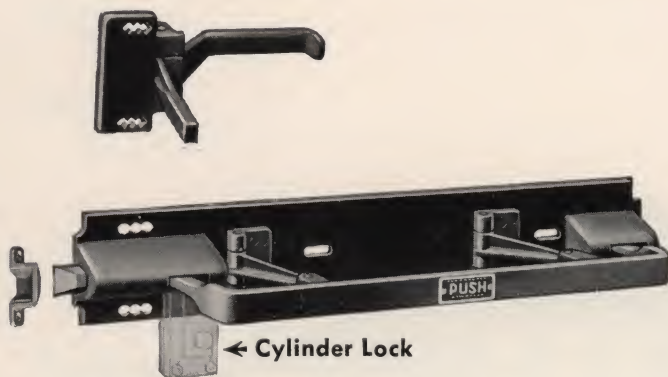
Patent No. 2,320,298



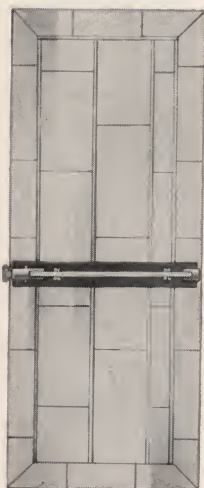
Exit Devices



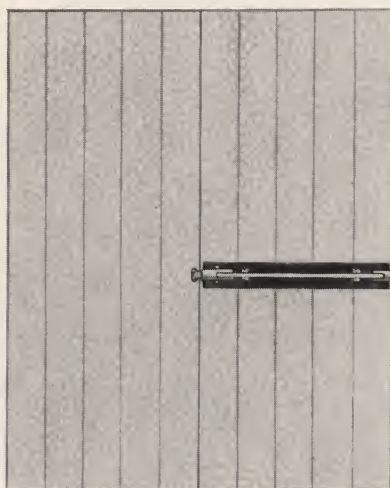
No. 144 Bolt with Outside Handle, Reversible Right Hand or Left Hand.



No. 144 Bolt with Cylinder Lock, Hand Not Reversible.



No. 144 Bolt Used on Single Swing Doors. (No. 446 Door) Shown



No. 144-2 Used on Active Door of a Pair of Swing Doors. (No. 647 Door) Shown

• USE

For single swing doors or the active door of a pair of swing doors from 1 3/8" to 2 5/8" thick.

For fire doors and industrial doors. When used on fire doors, suitable only for use where a single point latch is acceptable, that is on a single door opening not more than 4' wide and 8' high and on an opening for pairs of doors not more than 8' wide and 8' high.

• THREE STYLES

No. 144 for wood doors or tin-clad fire doors.

No. 144-1 furnished with special mounting plates, for use on corrugated steel fire doors or on steel plate doors.

No. 144-2 furnished with special shoulder bolts, for R-W No. 647 fire doors.

• FOUR SIZES

Size of Bolt	Width of Opening	Weight, Each No. 144 Bolt		
		144 446 Door	144-1 347-1347 Door	144-2 647 Door
24	2' 0"-2' 5"	14-1/4	18-1/4	15-1/4
30	2' 6"-2' 11"	17-1/4	21-1/4	18-1/4
36	3' 0"-3' 5"	20-1/4	24-1/4	21-1/4
42	3' 6"-4' 0"	23-1/4	27	24-1/2

When Cylinder Lock is used, Add 3/4 Lb. Without Outside Handle, Deduct 2-1/4 Lbs. (If Outside Handle is Omitted, Cylinder Lock **Cannot** be Used.)

• GENERAL DESCRIPTION

Standard design of malleable iron and steel. Sometimes certain parts of bronze are desirable to guard against sparking or corrosion. Then bolt proper, keepers, handle and links are made of bronze. To order this type add "B" to catalog number. For solid bronze bolts add "SB".

Can be furnished with cylinder lock to prevent operation from the outside except when unlocked but not interfering with operation from the inside at any time.

The outside operating handle permits door to be operated from the outside when not essential to have door locked from the outside. Can be furnished without outside handle if desired. If outside handle is omitted, cylinder lock **cannot** be used.

• FINISH

Regularly furnished gray enamel.

See "General Description" above for special conditions.

• DIRECTIONS FOR ORDERING

Follow directions given for No. 244 (see opposite page), also state if outside handle or lock is desirable. State thickness of door stop.

Panic Bolts for Pair Swinging Doors

Inspected And Approved By The Underwriters' Laboratories, Inc., Listed Under Reexamination Service . . . Exit Devices

Size of Bolt	Width of Opening	Weight, Each 144 and 244 Set		
		144 x 244 446 Door	144 x 244-1 347-1347 Door	144 x 244-2 647 Door
24	4' 0"-4' 11"	37-1/4	41-1/4	38-1/4
30	5' 0"-5' 11"	43-1/4	47-1/4	44-1/4
36	6' 0"-6' 11"	49-1/4	53-1/4	50-1/4
42	7' 0"-8' 0"	55-1/2	59-1/2	56-1/2

When Cylinder Lock is Specified (For No. 144 Bolt Only), Add 3/4 Lb.

Without Outside Handle (For No. 144 Bolt Only) Deduct 2-1/4 Lbs. (If Outside Handle is Omitted, Cylinder Lock Cannot be Used.)

Add 1 Lb. for Each Additional Foot of Height of Door Over 7' 0".



Exit Devices

Price of No. 244 Bolts does not include the No. 144 Bolt. If both are wanted, be sure to specify.



Inactive Door Right-Hand Shown with No. 244 Panic Bolt.

Active Door Left-Hand Shown with No. 144 Panic Bolt.

• USE

The panic bolts shown above are referred to as a No. 144 and 244 combination.

The No. 144 bolt is used on the active door and the No. 244 on an inactive door.

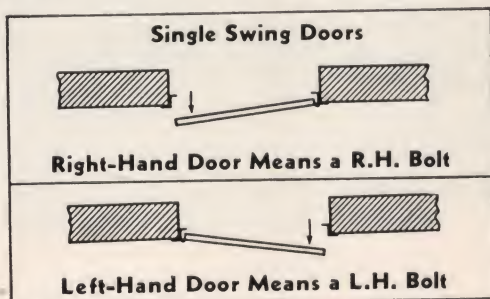
The No. 244 bolt used also where it is necessary to lock at both the top and bottom instead of to the side jamb.

The general description of the No. 144 panic bolt is shown on the opposite page.

• THREE STYLES

No. 144x244 for wood doors or Tin Clad Fire Doors. No. 144x244-1 furnished with special mounting plates . . . For use on corrugated steel fire doors or on steel plate doors.

No. 144x244-2 for R-W No. 647 "FyeR-Ward" fire doors . . . Special shoulder bolts are furnished for this style.



• DIRECTIONS FOR ORDERING

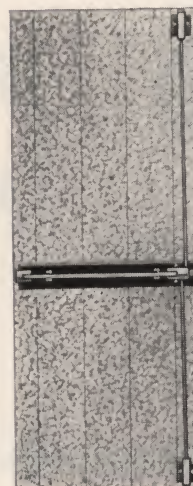
State Construction of Door So Proper Fastenings Can Be Furnished

- Panic bolts not requiring outside handles and locks
No. 144 Type, width and thickness of door and jamb construction.
No. 244 Type, width, height and thickness of door, and jamb construction.
- Panic bolts requiring outside handles
No. 144 Type, width and thickness of door and jamb construction.
- Panic bolts requiring outside handles and locks
No. 144 Type, width, thickness and swing of door, and jamb construction.

• FINISH

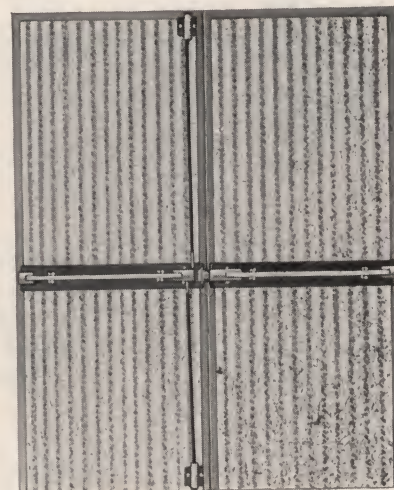
Regularly furnished, gray enamel.

See "General Description" page 114 for special conditions.



No. 244-2 used on Single Swing Door.

(No. 647 Door) Shown



No. 244-1 Panic Bolt is used on the Inactive Door at Left, and No. 144-1 Panic Bolt is used on the Active Door.

(No. 347 or 1347 Door) Shown

Latches for Doors and Gates

•No. 425 Latch

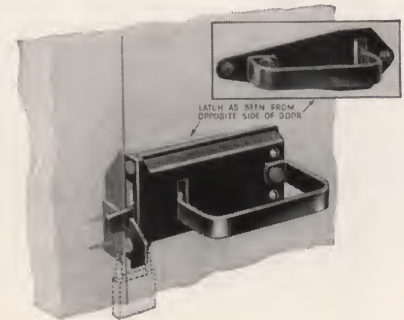
For swinging doors 1-5/8" to 2-1/4" thick. Provides hold-open keeper fastened to side of building to catch outside handle.

Steel construction. Reversible for right or left hand doors. Gravity-type latch bar. Handle, 3-5/8" wide. Latch, 6-1/4" long, 3" high.

Finish, gray enamel.

Packed one latch to a box including screws.

Weight, each, 1-1/2 lbs.



No. 425

•No. 452 Latch

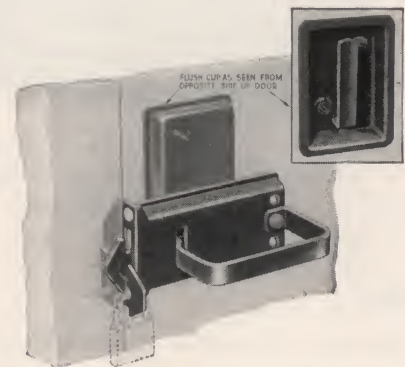
For sliding doors 1-5/8" to 2-1/4" thick.

Steel construction. Reversible for right or left hand doors. Handle, 3-5/8" wide. Flush cup, 3-3/16" wide by 4-3/8" high with flush handle. Gravity-type latch bar. Latch, 6-1/4" long, 3" high.

Finish, gray enamel.

Packed one latch to a box including screws.

Weight, each, 1-1/2 lbs.

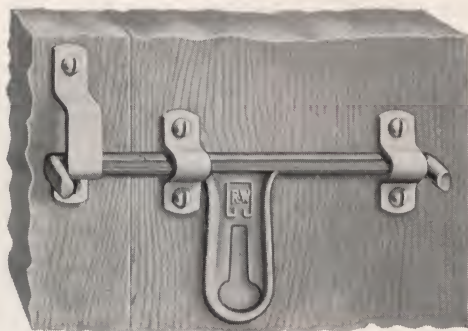


No. 452

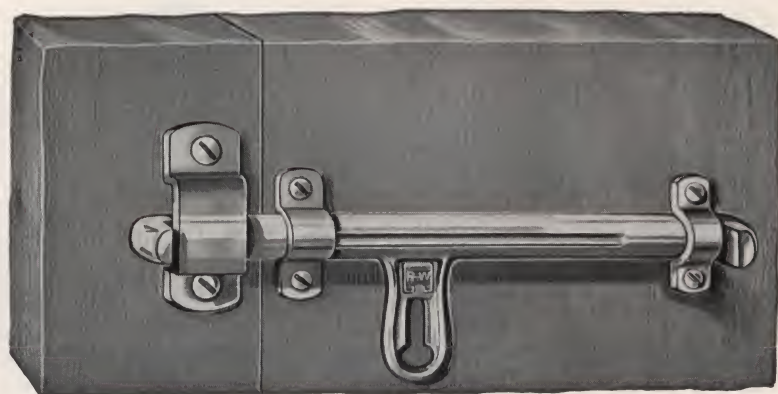


**Pages 172-187
Illustrate Other
Major Products
Made By R-W
Doors, Conveyors, Operators, Etc.**

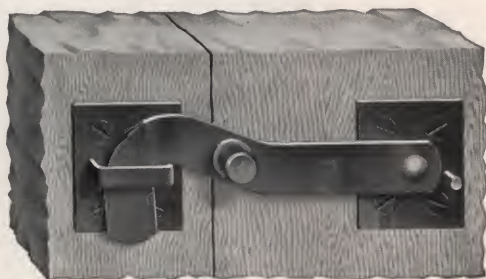
Door Latches



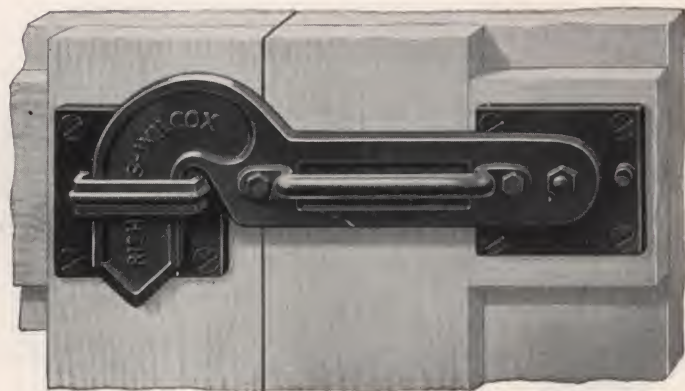
No. 128-2



No. 128-4



No. 1025-1 and 2 (right hand)



No. 1025-4

●No. 128 Dandy Door Bolt and Gravity Latch

For swinging and sliding doors.

Two sizes: No. 2 for medium size doors; No. 4 for larger doors.

Can use padlock by driving large staple into door to engage opening in handle of bolt in latched position. Reversible for right or left hand doors.

Bolt proper, malleable iron; keepers and guides, steel, No. 2, 1/2" x 8" bolt; No. 4, 3/4" x 12" bolt.

Finish, gray enamel, regular.

No. 2 latch bar, gray enamel, regular. Clips and keepers cadmium plated. Cadmium plated bars available if specified.

No. 4 latch, gray enamel, regular.

Packed: No. 2, one dozen in box; No. 4, two in a box with screws.

Weight per dozen: No. 2, 11 lbs.; No. 4, 25 lbs.

No. 1025 Door Latches

●Nos. 1025-1 and 2 Door Latches

For swinging or sliding doors. Inside or outside use. When ordering specify right or left hand.

No. 1, 6"; No. 2, 8". Forged steel, 3/16" thick, 1" wide.

Finish, gray enamel, regular. Galvanized available when specified.

Packed one dozen to a box. All one hand.

Weight per dozen: No. 1, 10-1/2 lbs.; No. 2, 12 lbs.

●No. 1025-4 Door Latch

For very heavy doors. Inside or outside use. Reversible, right or left hand as handle and latch bar are attached by screws.

Malleable iron. Length over-all, 14"; latch bar, 12"; pivot plate, 3-1/2" x 4"; keeper, 4" x 4".

Finish, gray enamel, regular. Galvanized available when specified.

Packed one in a box with screws.

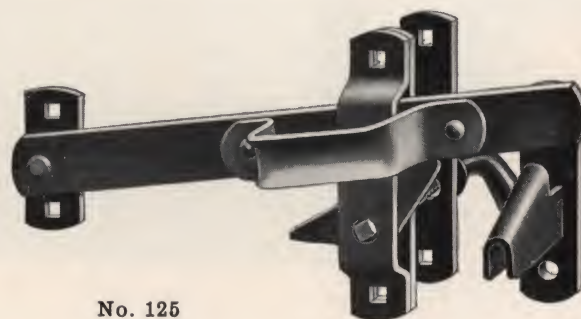
Weight, each, 5 lbs.

Door Latches

If it is Desired to use Padlocks with the Nos. 125 and 225 Latches, use No. 139 Padlock Plates

●No. 125 "Bull Dog" Steel Latch

For heavy warehouse or factory swinging doors up to 3" thick. Screw adjustment on spindle. Latch bar lifted on bar side of door by handle attached directly to it. Lever type handle with spindles and triangular latch lifter control the operation of the latch bar from opposite side of the door. Length, 13-5/8"; width, 1-1/2"; thickness, 5/16". Finish, gray enamel. Packed individually in metal edge box. Weight, each, 4-3/4 lbs.



No. 125

●No. 225 "Lion" Steel Latches

Four sizes with different keepers. For swing doors only. Nos. 1 and 2 for light doors 1-3/4" to 2-5/8" thick; No. 3 for medium doors 1-3/4" to 2-5/8" thick; and No. 4 for extra heavy doors up to 3" thick. Reversible for right or left hand doors.

Handles on Nos. 1 and 2, gray iron; Nos. 3 and 4, malleable iron. Finish, gray enamel. Packed one in a box, less bolts.



No. 225 Latch
No. 1 or 2 Keeper



No. 4 Keeper



225-3 Latch

Number	Style Keeper	Style of Handle	Latch Bar	Weight, Each
225-1	No. 1	Tee	10" x 1" x 1/4"	2 3/4 lbs.
225-2	No. 1	Tee	12" x 1 1/4" x 1/4"	3 1/4 lbs.
225-3	No. 3	Lever	13 5/8" x 1 1/2" x 5/16"	5 1/4 lbs.
225-4	No. 4	Tee	13 5/8" x 1 1/2" x 5/16"	6 lbs.

●No. 835 Door Bolt and Gravity Latch

Designed for outside face of single inswinging door. Adaptable to being locked by padlock. Reversible for right or left hand doors. Malleable iron bolt, other parts steel. Diameter, 1/2"; length, 8". Finish, gray enamel, regular. Packed one in a box with screws. Weight, each, 1 lb.

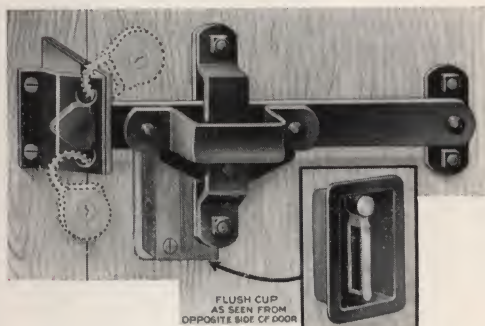


No. 835

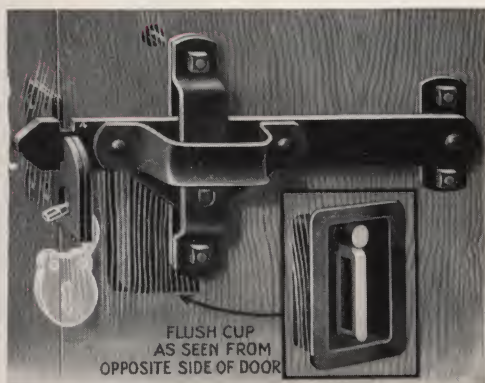
No. 152 Latches

For Sliding Doors

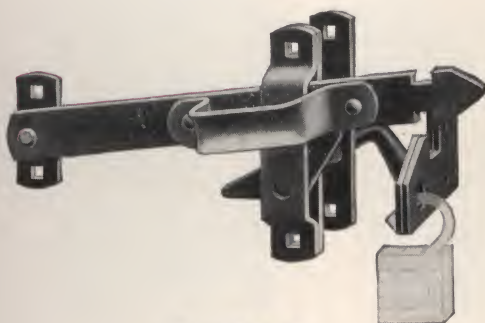
(Nos. 152-1 and 2, Nos. 152A-1 and A-2)



Nos. 152-1 and 2



Nos. 152A-1 and A-2



No. 152A-3

•Use

For heavy mill or warehouse sliding doors, 1-3/4" to 2-3/4" thick.

•Construction

Operates from either side of door, may be locked by padlock. Reversible for right or left hand doors. Choice of two sizes of flush cups or two styles of keepers. Latch bar: 13-5/8" long, 1-1/2" wide, 5/16" thick.

No. 152-1, keeper as illustrated left above, flush cup, 2-1/8" wide by 3-7/8" high inside.

No. 152-2, keeper same as 152-1, flush cup, 3" wide by 3-7/8" high inside.

No. 152A-1, two-piece keeper as shown, flush cup, 2-1/8" wide by 3-7/8" high inside.

No. 152A-2, keeper same as 152A-1, flush cup, 3" wide by 3-7/8" high inside.

•Finish

Gray enamel.

•Packed

One latch in a box less bolts.

•Weight

Each, 5-1/2 lbs.

For Swinging Doors (No. 152A-3)

•Use

For heavy mill or warehouse swinging doors, 1-3/4" to 2-3/4" thick.

•Construction

Operates from either side of door, may be locked with padlock. Reversible for right or left hand doors. Latch bar: 13-5/8" long, 1-1/2" wide, 5/16" thick.

•Finish

Gray enamel, regular.

•Packed

One latch in a box less bolts.

•Weight

Each, 5-1/4 lbs.

Door Bolts

No. 514 Spring Bolt

● **Use**

For garage doors. Reversible. Two sizes.

● **Construction**

No. 514-1 housing, steel, 4-5/8" long. Bolt proper, 1/2" x 5/8", 5-1/2" long over-all. Chain, 24" long with ring on end. Two keepers.

No. 514-2 housing, heavy steel, 9" long. Bolt proper, 3/4" square end, 10" long over-all. Chain, 36" long with ring on end. Two keepers.

● **Finish**

Gray enamel.

● **Packed**

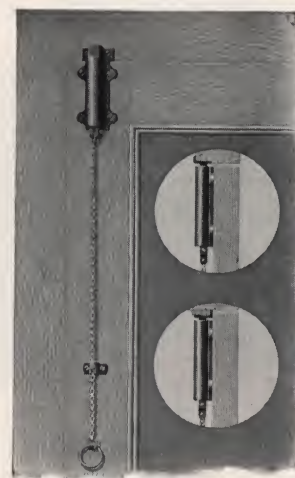
No. 514-1; six in a box.

No. 514-2; one in a box.

All with screws and chain for each bolt.

● **Weight**

No. 1, 1 lb. ea.; No. 2, 2 lbs. ea.



No. 514-1 or 2 Showing Various Applications of Keepers

No. 514-3 Heavy Top Spring Bolt

● **Use**

Extra heavy bolt for warehouse or other heavy doors.

● **Construction**

Housing, malleable iron, 9" long. Bolt proper, 1-1/4" wide by 1" thick, 10-1/2" long over-all. Chain, 60" long with ring on end. Clip to guide chain also included. Projection from face of door, 1-3/4". One keeper furnished. Always specify thickness of door to which bolt is to be attached.

● **Finish**

Gray enamel.

● **Packed**

One in a box with carriage bolts.

● **Weight**

Each, 7 lbs.



No. 514-3 Bolt

No. 524 Cane Bottom Bolt

● **Use**

For garage or warehouse doors.

● **Construction**

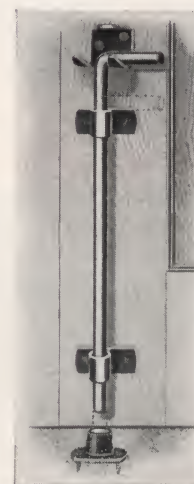
Steel. No. 4 size guides, gray iron. Bolt drops by gravity when handle is lifted out of socket. Keeper installed in wood or concrete floor.

● **Finish**

Gray enamel.

● **Packed**

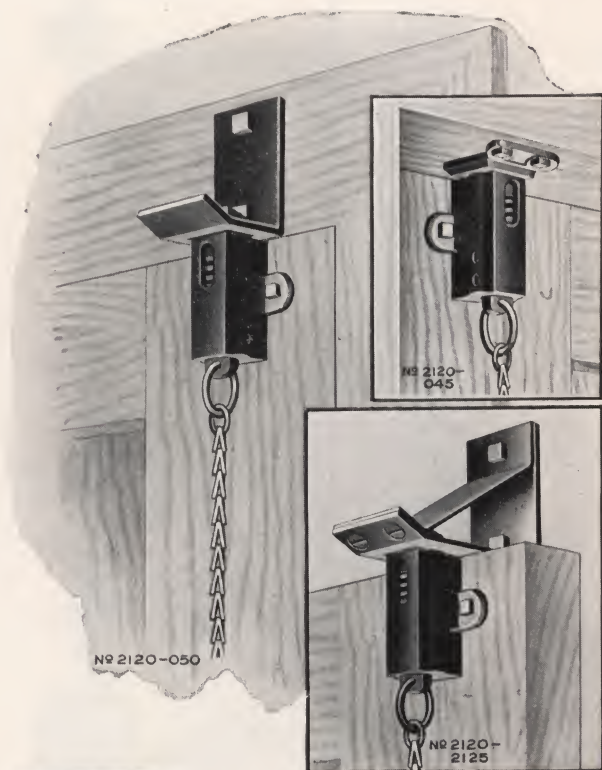
One in a box with wood screws.



No. 524 Bolt

Size	Dimensions	Projection from Door	Weight Each
No. 0	1/2" x 12" long	1-5/16"	1-3/4 lbs.
No. 1	5/8" x 18" long	1-5/16"	3 lbs.
No. 2	3/4" x 24" long	1-7/16"	4-1/2 lbs.
No. 3	7/8" x 24" long	1-3/4"	7 lbs.
No. 4	1" x 30" long	1-7/8"	11-1/2 lbs.

Door Bolts



No. 2120 Top or Bottom Spring Bolt (Specify Thickness of Door)

● **Use**

Extra heavy bolt for warehouse or other heavy doors.

● **Construction**

Housing, malleable iron, 5" long. Bolt proper, malleable iron, 7/8" x 1-1/8". Chain, 36" long with ring and clip. Projects 2-1/8" from face of door. Furnished with either of three styles of keepers illustrated. **Be sure to specify which style is desired.**

● **Finish**

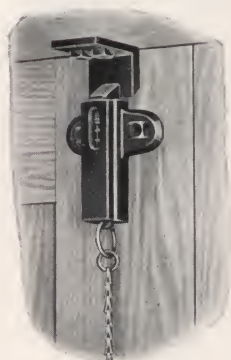
Gray enamel.

● **Packed**

In bulk.

● **Weight**

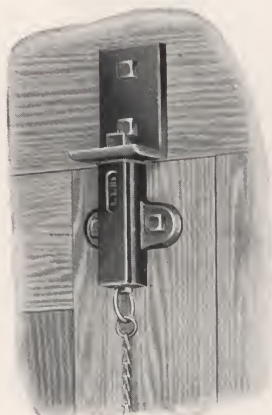
Each, 8 lbs.



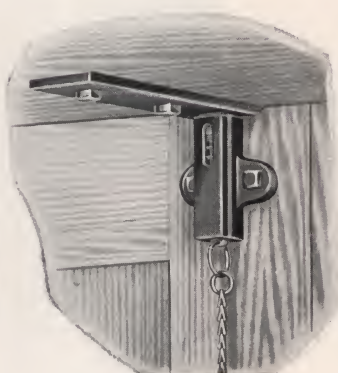
**No. 434-T Bolt
with Keeper B**



No. 434-R Bolt



**No. 434-C Bolt
with Keeper A**



**No. 434-C Bolt
with Keeper D**

No. 434 Top Spring Bolt

● **Three Styles**

Three styles of bolts, C, R and T.

Three styles of keepers as illustrated.

Any keeper furnished with any bolt (just specify).

● **Construction**

Similar to No. 2120 bolt. Projects 1-5/16" from face of door.

● **Finish**

Gray enamel.

● **Packed**

In bulk.

● **Weight**

Each, 7 lbs.

No. 517 Garage Cremone Bolt

•Use

Provides continuous bolt for locking door at top and bottom with one movement of lever handle.

Adjustable for doors up to 9' high.

•Three Styles

No. 517—ends of connecting rods, where attached to lever handle, are off center so bolt maintains position by gravity, cannot be changed except by moving handle.

No. 517 x 427—517 bolt plus cylinder lock with offset locking attachment and an outside operating handle.

No. 517 x 527—517 bolt plus a No. 527 exterior handle and lug. For use with a padlock arrangement.

•Construction

Connecting rods, 1/2" diameter steel, made in sections. Threaded at top and bottom to provide adjustment. Extra 18" sections can be furnished at extra cost. Outside surface of door strikes lug on bottom keeper so bolt will always be in line with opening in keeper when door is shut. Keeper adjustable for various thickness doors. For in-opening doors only. Flat bottom keeper furnished for out-opening doors only.

No. 517 x 427 and 517 x 527 may be operated from outside by exterior operating handle.

•Packed

Packed with screws and keepers in box.

•Finish

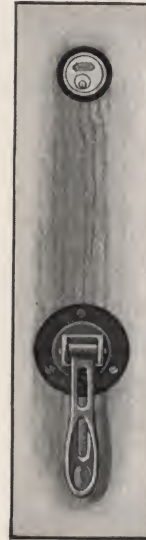
Gray enamel.

•Weight

For doors up to 9' high: No. 517, 11 lbs.; No. 517 x 427, 14-1/2 lbs.; No. 517 x 527, 10-3/4 lbs. Extra section, 18" long, 1 lb.

•Directions for Ordering

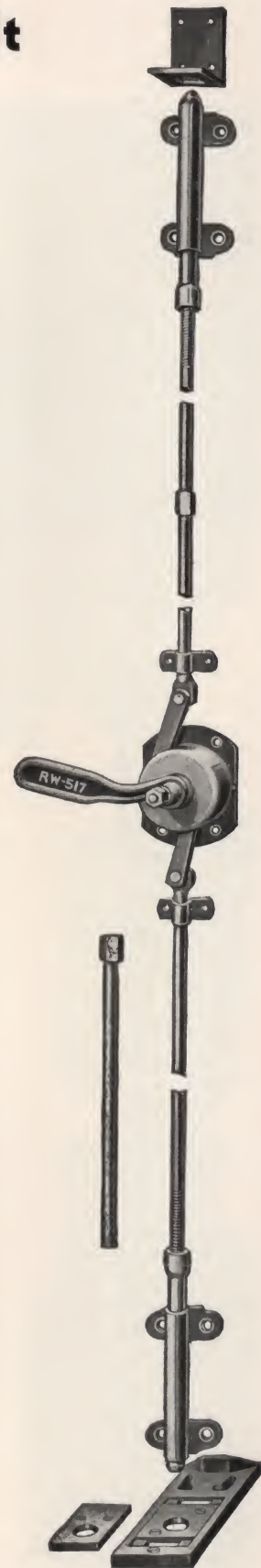
State height of door; whether sliding, sliding-folding or swing doors; if swing door, does it overlap jamb or set in flush; whether doors swing in or out.



No. 517 x 427

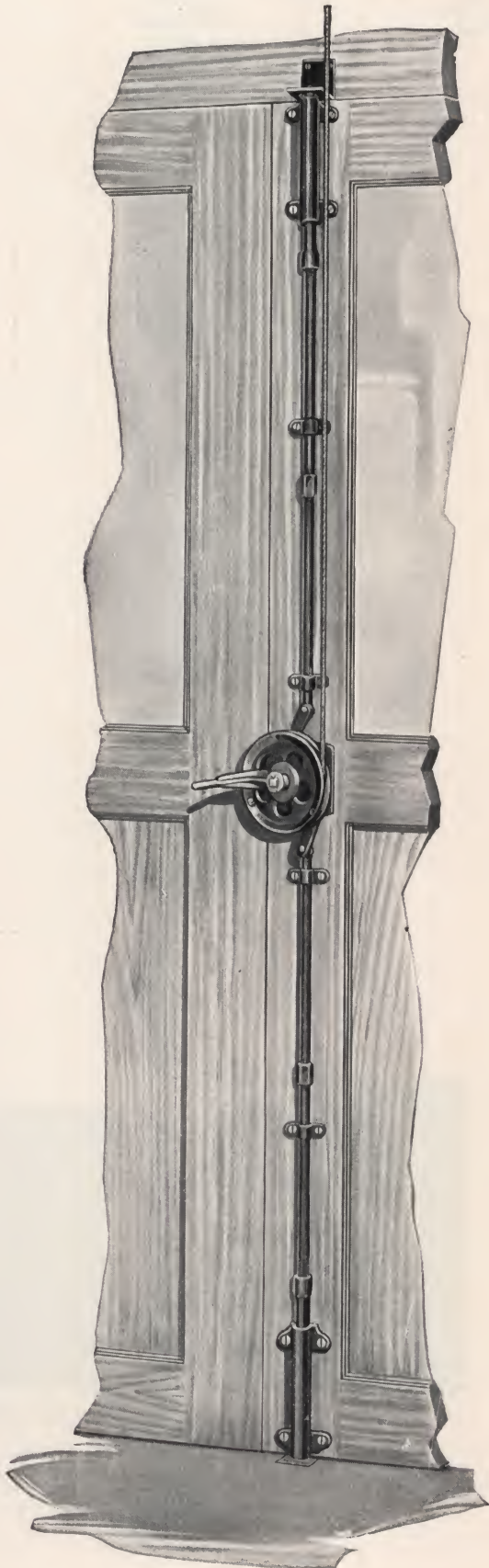


No. 517 x 527



No. 517 Bolt

No. 1335 Fire Station Door Bolt



- **Use**

For fire station doors requiring rugged but quick acting bolts.

- **Construction**

Consists of regular 517 cremone bolt with rope operated unlocking attachment. Quick jerk of rope from driver's seat operates action of bolt. For features of bolt see No. 517 cremone bolt (opposite page).

- **Packed**

Packed complete, less rope, in metal edge box.

- **Finish**

Gray enamel.

- **Weight**

For doors up to 9' high, No. 1335, 17 lbs.

- **Directions for Ordering**

State the following:

Height of door.

Whether sliding-folding or swing door.

If swing door, does same overlap jamb or is it set in flush.

No. 617 Garage Cremone Bolt

•Use

Provides an ornamental continuous bolt for locking garage doors at top and bottom with one movement of lever handle.

•Three Styles

No. 617—ends of connecting arms attached to lever handle; bolt will retain its position until manually operated.

No. 617 x 427—No. 617 bolt plus cylinder lock with off-set locking attachment and outside operating handle.

No. 617 x 527—No. 617 bolt plus No. 527 exterior handle and lug.

•Construction

Three sections united, 1/2" diameter steel connecting rods.

Adjustable for doors up to 10' high.

Connecting rods threaded at top and bottom to provide adjustment.

Extra 18" sections furnished at extra cost.

Outside surface of door strikes lug on patented bottom keeper as bolt will always be in line with opening in keeper when door is shut. This patented keeper is adjustable for doors of various thicknesses and for in-opening doors only.

Flat bottom keeper furnished for out-opening doors.

Nos. 617 x 427 and 617 x 527 may be operated from outside by exterior handle.

•Packed

One in a box with screws and keeper.

•Finish

Gray enamel.

•Weight

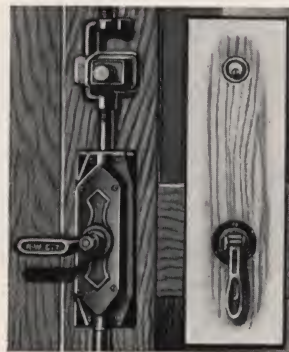
For doors up to 10' high: No. 617, 15-1/2 lbs.; No. 617 x 427, 16 lbs.; No. 617 x 527, 15-1/4 lbs. Extra 18" sections, 1-1/4 lbs.

•Directions for Ordering

State height of door, whether sliding, sliding-folding, or swing doors; does it overlap jamb or set in flush; whether doors swing in or out.



No. 617



No. 617 x 427



No. 617 x 527

No. 1017 Extra-Heavy Cremone Bolt



•Use

For extra large heavy doors as specified.

•Construction

Cast parts, malleable iron.

Rod, 1.050" O.D. tubing.

Rod threaded 3" at top and bottom for total adjustment of 6".

Throw of bolt, 3".

Operating handle, 4' from floor.

All parts reversible.

Attached to door with side flanges.

Projection from door, 2-1/2". Adjustable patented bottom keeper for in-opening doors same as No. 517 or 617 bolt.

Flat bottom keeper for out-opening doors.

•Packed

One in a box, complete, with screws and keeper.

(State thickness of door for screws.)

•Finish

Gray enamel.

•Weight

For doors up to 10' high, each, 25 lbs.

Weight, per extra foot, 1-1/2 lbs.

Door Bolts

●No. 135 Flush Door Bolt (For 1-3/8" Doors)

Used with No. 135-0 accordion partition hardware. Furnished with plain keeper as illustrated. Face plate die cast metal, 1-1/4" wide by 7-1/2" high. Movement of bolt, 1". Exposed parts furnished in baked enamel or plated finish as specified. Specify thickness of door, finish of bolt and type of keeper. Weight, each, 1/2 lb.



No. 135

●No. 496 Flush Door Bolt (For Doors 1-3/4" or More in Thickness)

Extremely heavy bolt used with large folding partition doors which do not use floor track. Furnished with plain keeper. Face plate: steel, brass or bronze; 2" wide by 8-3/8" long. Gravity drop-type thumb piece and has a 1" throw. Exposed parts furnished in dead black baked enamel or plated finish as specified. Specify thickness of door and finish of bolt. Weight, each, 1-3/4 lbs.



No. 496

●No. 696 Flush Door Bolt (For Doors 1-3/4" or More in Thickness)

Extremely heavy bolt used with folding partition doors using floor track. Keeper not furnished. Bolt engages in floor track. Face plate: steel, brass or bronze; 2" wide by 8-3/8" long. Gravity drop-type thumb piece, 1" throw. Exposed parts furnished in dead black baked enamel or plated finish as specified. Specify thickness of door and finish of bolt. Weight, each, 1-3/4 lbs.



No. 696

●No. 698 Flush Door Bolt (For Doors 1-3/4" or More in Thickness)

Extremely heavy bolt used with folding partition doors using floor track but requiring bolt to engage in keeper so doors may be locked against movement in any direction. Furnished with plain keeper as illustrated. Face plate: steel, brass or bronze; 2" wide by 8-3/8" long. Gravity drop-type thumb piece, 1" throw. Exposed parts furnished in dead black baked enamel or plated finish as specified. Specify thickness of door and finish of bolt. Weight, each, 1-3/4 lbs.



No. 698

●No. 405 Dustproof Keeper

When specified, furnished at extra cost.
For Nos. 135, 237, 496 and 698 bolts only.



No. 405 Dust-proof Keeper

Door Bolts and Locks

No. 416 Titite Door Lock

•Use

No. 416-1, for parallel doors 1-3/4" or more in thickness.

No. 416-2, for straight sliding doors of any thickness.

•Construction

Malleable iron.

•Installation

No. 416-1, furnished with flush keeper. Lock attached to edge of door, keeper is inserted into face of other door.

No. 416-2, furnished with surface keeper. Lock attached to face of door, keeper is attached to face of adjoining door or to jamb (in case of single door).

•Finish

Cadmium plated.

•Packed

One in a box with screws.

•Weight

Each: No. 416-1, 1-1/2 lbs.; No. 416-2, 1-3/4 lbs.



No. 416-1



No. 416-2



No. 516

No. 516 Parallel Door Bolt and Lock

•Use

For garage doors 1-3/4" to 3" thick operating on parallel track. May be used on single doors by inserting keeper casting in jamb on side wall.

•Construction

Malleable iron and steel.

•Installation

Lock inserted in stile of door, bolt passing entirely through door and into keeper in stile of other door or in jamb (in case of single doors).

Doors should lap each other or jamb at least 2".

•Finish

Gray enamel.

•Packed

One in a box with bolts and screws.

•Weight

Each, 3-1/4 lbs.

Locks and Latches

No. 350 Latch

For garage entrance doors. Furnished with two handles and latch thumb lift.

Brass face. Mortise case: 5-1/2" high, 3-1/2" deep, 7/8" thick. Face plate 7-3/4" high by 1" wide. From face of door to center of handle, 2-1/2".

Gray enamel finish.

Packed one in a box with screws.

Weight, each, 4 lbs.



No. 350 Latch

No. 525 Sliding Door Lock

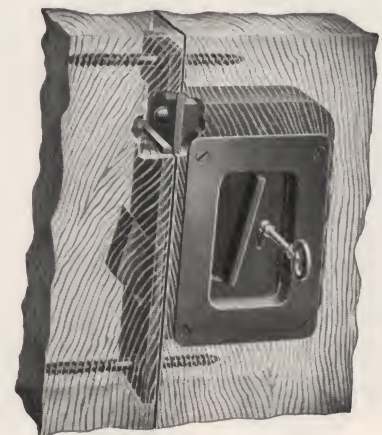
For single or double sliding doors 1-3/4" or more in thickness. Operated from either side of doors.

Latch piece and trip, malleable iron. Steel flush cups. Steel keeper plate. Mortise case: 4-3/4" high, 3-3/4" deep, 7/8" thick. Maximum lap of door over jamb, 1". Twenty-eight changes of keys.

Gray enamel finish.

Packed one lock to a box with screws and template.

Weight, each, 2-3/4 lbs.



No. 525 Lock

No. 550 Cylinder Lock

For garage entrance doors. Furnished with two handles, latch thumb lift and two keys. Made with one cylinder for locking doors from outside only or two cylinders for locking doors from both sides.

Lock face, cylinder and strike, dull brass. Mortise case, black japan. Mortise case: 5-5/8" high, 3-3/4" deep, 3/4" thick with a 1/2" throw. Face plate of lock 8" high, 1" wide. Face of door to center of handle, 2-1/2".

Handles, gray enamel finish.

Packed one in a box with screws.

Weight, each, 5 lbs.

In ordering, state thickness of door for proper length cylinder, and whether one or two cylinders desired.



No. 550
Cylinder Lock

Flush Pulls



No. 535-4

●No. 535-4 Pull

Designed for use with partition hardware or for any door 1-3/8" or more in thickness. Made of almag, brass or bronze. Length, 5-7/8"; width, 3-3/8"; depth, 1". Weight, each, 3/4 lb.

Available in the following finishes:

- US1D Dead Black
- US3 Bright Brass
- US4 Dull Brass
- US9 Bright Bronze
- US10 Dull Bronze
- US26D Dull Chromium Plate
- Brushed Aluminum



No. 535-5

●No. 535-5 Pull

For any heavy-type door requiring flush handle pull. Made of almag, brass or bronze. Length, 5-3/4"; width, 4-1/4"; depth, 1-5/8". Weight, each, 1-1/2 lbs.

Available in the following finishes:

- US1D Dead Black
- US3 Bright Brass
- US4 Dull Brass
- US9 Bright Bronze
- US10 Dull Bronze
- US26D Dull Chromium Plate
- Brushed Aluminum



No. 770

●No. 770 Pull

For folding partition doors with narrow stiles or for doors with minimum thickness of 1-1/8". Grip drops into door by gravity, flush when not in use; easily pulled out and firmly gripped for manipulation of door. Size, 6" long by 2" wide. Made of malleable iron or solid brass or bronze. Finished in dead black or brass or bronze. Weight, per hundred, 100 lbs.

Flush Pulls

●No. 70-1 Pull

For doors up to 1-3/4" thick. Requires 3/4" deep mortise. Size, 4" x 5-7/8". Inside dimensions of cup, 1-1/2" x 3-1/2" x 7/8" deep.

Made of steel.

Packed in bulk, less screws.

Finish, gray enamel.

Weight, each, 3/4 lb.

●No. 70-2 Pull

For doors over 1-3/4" thick. Requires 1-1/2" deep mortise. Size, 4-1/2" x 7". Inside dimensions of cup, 1-3/8" x 4-1/2" x 1-5/8" deep.

Made of steel.

Packed in bulk, less screws.

Finish, gray enamel.

Weight, each, 1-1/4 lbs.

●No. 470 Pull

For very heavy doors 1-3/4" or more in thickness. Requires 1-3/4" deep mortise. For doors 1-3/4" thick, back plates must be used; furnished when specified at extra cost. Size, 6-1/2" high by 4-3/4" wide. Inside dimensions of cup, 3-7/8" wide by 4-1/2" high, 1-3/4" deep. Pull, malleable iron.

Back plates, steel.

Packed in bulk, less bolts.

Finish, gray enamel.

Pull weight, each, 3 lbs.

Back plates, weight, each, 1 lb.

●No. 670 Pull

For elevator doors.

Height, over-all, 4-7/8". Width on face of door, 2-3/8". Width of flange that laps over edge of door, 1-3/16".

Packed in bulk, less bolts.

Polished bronze.

Weight, each, 11 ozs.



No. 70-1 and 2



No. 470



No. 670

Bow Handles



No. 71



No. 81



No. 91

•No. 71 Bow Handle

Two sizes. Steel construction. No. 1, 6-1/2" long; No. 2, 7-3/8" long. Finish, gray enamel. Bolt holes register with No. 70 flush pull. Packed in bulk, less screws. Weight, each, No. 1, 1/4 lb.; No. 2, 1/2 lb.

•No. 81 Bow Handle

Two sizes. Gray iron. No. 1, 6-1/4" long; No. 2, 8" long. Finish, gray enamel. Packed one dozen in box with screws. Weight, each, No. 1, 1/2 lb.; No. 2, 1 lb.

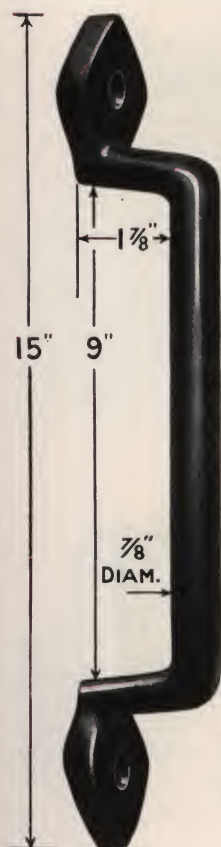
•No. 91 Bow Handle

Steel construction, 6-7/8" long. Holes are for screws and do not register with No. 70 flush pull. Finish, gray enamel. Packed one dozen in box with screws. Weight, each, 1/4 lb.

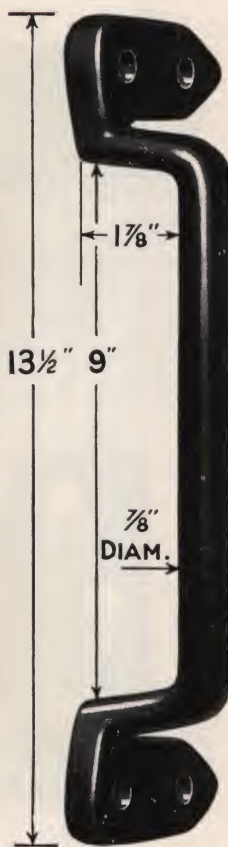
Bow Handles for Heavy Doors

•No. 191 Bow Handle with Straight Pad

Malleable iron. Held to door by 1/2" bolt in each pad extending through door. Bolts not regularly furnished but will be packed if desired. State thickness of door. Projection from face of door, 2-3/4". Finish, gray enamel. Packed in bulk, less bolts. Weight, each, 2-3/4 lbs.



No. 191



No. 192

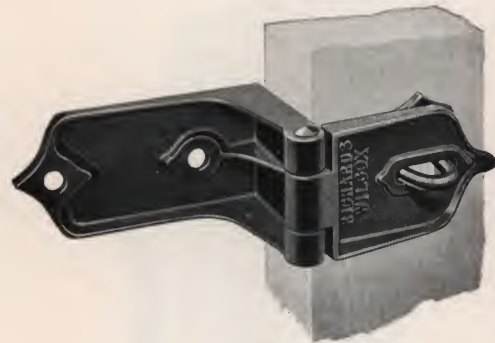
•No. 192 Bow Handle with Offset Pad

Affords more bearing on the door with two 1/2" bolts used in each pad extending through door. Bolts not regularly supplied but can be furnished. State thickness of door. Projection from face of door, 2-3/4". Finish, gray enamel. Packed in bulk, less bolts. Weight, each, 3-1/4 lbs.

Hasps and Door Catches

●No. 182 Heavy Hasp

Two sizes: No. 2 for 1-3/4" doors; No. 3 for 2-1/2" to 3" doors. For use with heavy doors as a door bumper, binder, and hasp. Length on wall, 7-1/8". Length of hinged leaf which overlaps door, 5". Furnished with screws for padlock eye. Wall bolts furnished at additional cost if specified. Finish, gray enamel. Packed in bulk, less bolts. Weight, each: No. 2, 3-3/4 lbs.; No. 3, 4 lbs.



No. 182

●No. 183 Heavy Duty Steel Hasp

Two styles. No. 1, pad is reversed. No. 2, pad is regular. Over-all length, 7-1/2"; hinge leaf, 5-1/2"; pad, 2"; width, 3". Finish, gray enamel. Packed 6 in a box, less screws. Weight, each, 1-1/4 lbs.



No. 183-2

●No. 129 Door Catch

Automatic catch for 1" doors. For doors over 1" thick, order No. 129 clips in addition to catch. Screw clip to the face of door and the hook of the catch engages the clip. Gray iron. Finish, gray enamel. Packed one dozen to box, less screws. Weight, per dozen: catch, 5 lbs.; clip, 3 lbs.



No. 129

●No. 139 Padlock Plates

For use on either sliding or swinging garage, barn or warehouse doors. One plate mortised into edge of door and other into jamb. Height, 2-1/2", No. 11 gauge steel. Gray enamel finish. Packed one pair in envelope including screws. Weight, per pair, 1/4 lb.



No. 139

Door Holders



No. 118

●No. 118 Door Holder

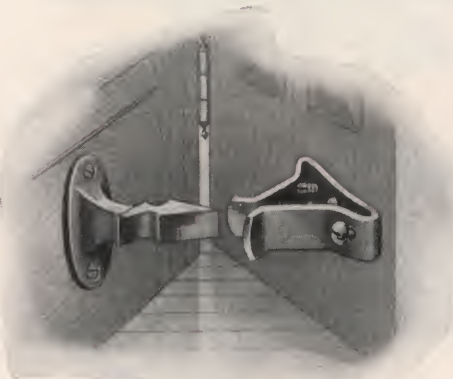
For floor attachment. Holder of malleable iron, clip of special spring metal. Finished in gray enamel or plated unpolished finishes as listed below.* Packed one dozen in box complete with screws. Weight, per dozen, 3-1/2 lbs.



No. 119

●No. 119 Door Holder

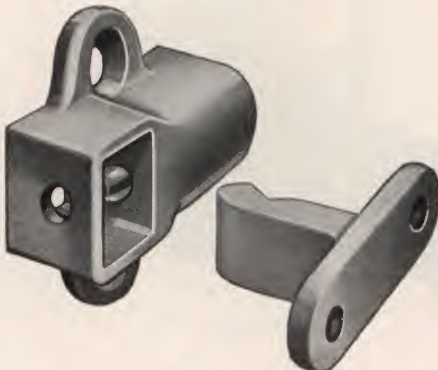
For wall attachment. Holder of steel, clip of special spring metal. Finished in gray enamel or plated unpolished finishes as listed below.* Packed one dozen in box complete with screws. Weight, per dozen, 2-1/2 lbs.



No. 119-1/2

●No. 119-1/2 Door Holder

For wall attachment. Holder of malleable iron, clip of special spring metal. Finished in gray enamel or plated unpolished finishes as listed below.* Packed one dozen in box complete with screws. Weight, per dozen, 3 lbs.



No. 319

●No. 319 Door Holder

For use where there is no space for Nos. 119 and 119-1/2 door holders. Spring holder of malleable iron with steel plunger. Over-all distance from back to back of two parts when engaged is 1-1/8". Length over-all, 2-3/16"; over-all height, 2". Finish, gray enamel but can be furnished galvanized on special orders. Packed in bulk with screws. Weight, each, 1/4 lb.

*Unpolished Bronze or Brass available on special order.

Stay Rollers

●No. 55 Lag Screw Barn Door Stay Roller For Inside Doors Only

Wheels, gray iron, 2" diameter. Lag screw, 7/16" diameter, extends 5-3/4" below wheel. Finish, gray enamel. Packed in bulk. Weight, each, 3/4 lb.



No. 55

●No. 835 Lag Screw Stay Roller

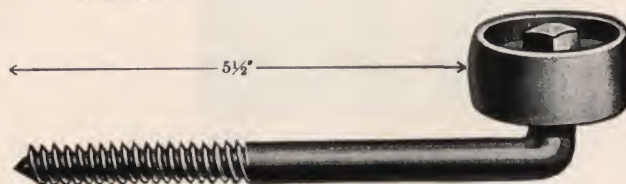
Wheels, gray iron, 2" diameter. Lag screw, 3/8" diameter, extends 2-1/2" below wheel. Finish, gray enamel. Packed in bulk. Weight, each, 8 oz.



No. 835

●No. 57 Lag Screw Barn Door Stay Roller For Outside Doors Only

Wheels, gray iron, 2" diameter. Lag screw, 7/16" diameter. Finish, gray enamel. Packed in bulk. Weight, each, 3/4 lb.



No. 57

●No. 53 "Handy" Barn Door Stay Roller

For inside or outside doors, 1-1/2" to 2-1/2" thick. Adjustable and reversible. Wheels, gray iron, 2" diameter. Steel frame, 4" long, 1-1/2" high, 3-5/8" wide. Finish, gray enamel. Packed in bulk. Weight, each, 1 lb.



No. 53



Barn Door Stay Rollers



No. 58

•No. 58 "OK" Barn Door Stay Roller

For inside or outside doors, 1-1/2" to 2-3/4" thick. Adjustable and reversible. Wheels, gray iron, 2" diameter. Steel frame, 4-1/2" long, 2-1/2" high, 1-1/4" wide. Finish, gray enamel. Packed in bulk, less screws. Weight, each, 1 lb.

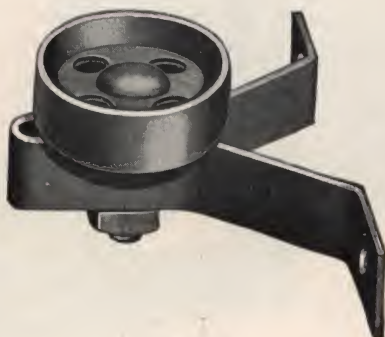


No. 66

•No. 66 Barn Door Stay Roller

For inside doors only. Can be fastened to concrete floors with expansion bolts. Wheels, gray iron. Finish, gray enamel, less bolts or screws.

Size	Wheels, Diameter	Steel Frame			Weight, Each
		Length	Height	Width	
No. 1	2"	3-7/8"	2"	1-3/8"	3/4 lb.
No. 2	3-1/4"	6-1/2"	3-1/2"	2"	1-1/2 lbs.



No. 67

•No. 67 "Adjustable" Barn Door Stay Roller

Adjustable for doors up to 2-1/4" thick. Wheels, gray iron, 2" diameter. Steel frame, 3-7/8" long, 1-3/8" wide, projects 3-1/4". Finish, gray enamel. Packed in bulk, less screws. Weight, per hundred, 84 lbs.

Stay Rollers

●No. 54 Barn Door Stay Roller

Wheel, gray iron, 2-1/2" diameter. Covered with steel frame, 6" long, 2-3/4" high, 2" wide. Finish, gray enamel. Packed in bulk, less bolts or screws. Weight, each, 2 lbs.



No. 54

●No. 59 Warehouse Door Stay Roller

With Back Brace

Extra high to suit doors on incline track. Wheel, gray iron, 3-1/4" diameter. Steel frame, 2-1/4" wide, 3/16" thick. Distance from floor to center of wheel, 8-1/2". Over-all height, 9-1/2". Finish, gray enamel. Packed in bulk, less bolts or screws. Weight, each, 3-3/4 lbs.



No. 59

No. 60 Warehouse Door Stay Roller

Without Back Brace

Same as No. 59 above except that it is lower and back brace is removed. Frequently imbedded in concrete floors. Wheel, gray iron, 3-1/4" diameter. Steel frame, 2-1/4" wide, 3/16" thick. Distance from floor to center of wheel, 6-3/4". Over-all height, 7-1/2". Finish, gray enamel. Packed in bulk, less bolts or screws. Weight, per hundred, 275 lbs.



No. 60

●No. 68 Stay Roller

Adjustable and Reversible

Adjustable for doors up to 3" thick. Wheel, gray iron, 2-1/2" diameter. Heavy steel frame, 2" wide, 7-5/8" high, 1/4" thick. Wheel stands 4-1/2" high. Finish, gray enamel. Packed in bulk, less bolts or screws. Weight, each, 3 lbs.



No. 68

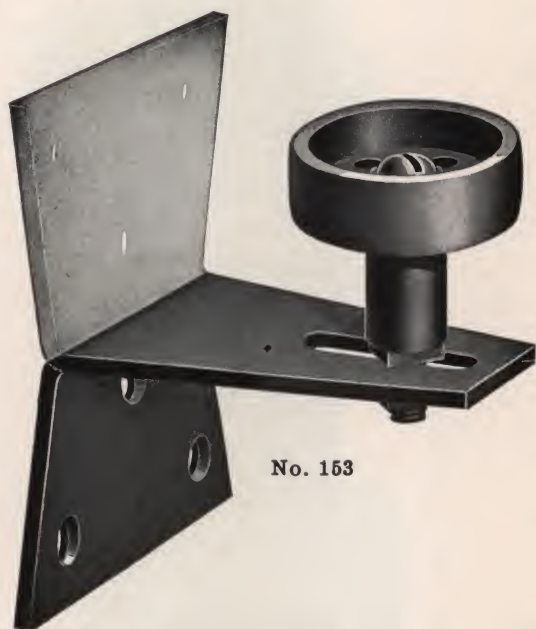
Warehouse Door Stay Rollers



No. 151

•No. 151 "Safety" Stay Roller

Wheel protected by gray iron cover. Wheel, gray iron, 2" diameter. Finish, gray enamel. Packed in bulk, less bolts or screws. Weight, each, 1-1/4 lbs.



No. 153

•No. 153 Warehouse Stay Roller

Adjustable and reversible for inside or outside doors 1-1/2" to 3" thick. Wheel, gray iron, 2-1/2" diameter. Steel frame. Finish, gray enamel. Packed in bulk, less bolts or screws. Weight, each, 2-1/4 lbs.



No. 154

•No. 154 Heavy Warehouse Stay Roller

For heavy warehouse and freight-house doors. Wheel, gray iron, 3-1/2" diameter. Heavy steel frame with slotted screw holes provides means for adjustment. 7" long, 3" high, 5" wide. Finish, gray enamel. Packed in bulk, less bolts. Weight, each, 4-1/2 lbs.

Floor Guides

●No. 372 Door Guide

For use with flush or parallel garage doors with concrete or wood floors. Holds bottom of door close to wall in open or closed position. When used with concrete floor, base should be set into concrete about $\frac{3}{4}$ ". Height, 2"; thickness, $\frac{1}{4}$ "; width, 6". Finish, gray enamel. Packed with screws. Weight, each, 1 lb.



No. 372

●No. 102 - 72 Bumper Shoes

To protect the corners of wood doors where they come in contact with binders, bumpers, and guides. 16 gauge steel. 3-1/2" high, 3-1/2" wide, 3/4" lip. Finish, gray enamel. Packed in bulk, less screws. Weight, per hundred, 50 lbs.



No. 102 - 72

●No. 172 Adjustable Parallel Door Floor Guides

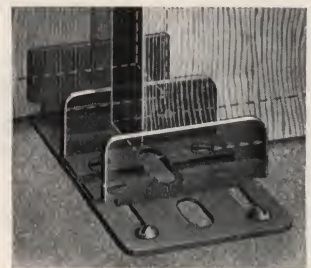
Two sizes for use with parallel sliding doors 1-3/4" to 3" thick.

No. 1 for double parallel doors.

No. 2 for triple parallel doors.

Height, 2-3/8".

Suitable with concrete or wood floors. With concrete floors, base should be set into the concrete about $\frac{3}{4}$ ". Finish, gray enamel. Weight, No. 1, each, with screws, 5 lbs.; No. 2, each, with screws, 7 lbs.



No. 172-1



No. 172-2

●No. 173 Adjustable Parallel Door Floor Guide

For light weight doors 3/4" to 2-3/4" thick. Similar to 172-1 except that it is of much lighter construction. Height, 1-5/16" Finish, gray enamel. Weight, each with screws, 1-1/2 lbs.



No. 173

Floor Center Guides and Stops

NOTE: Bottom of doors which come in contact with guides should be protected by steel bumper shoes which must be ordered separately.

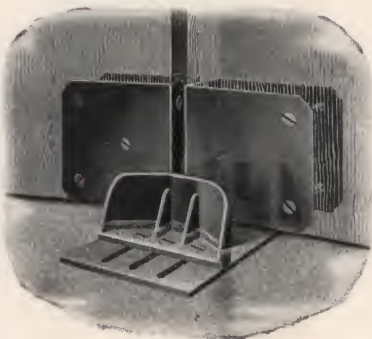


No. 171

•No. 171 Floor Center Stop

Three sizes for pairs of sliding doors: No. 2 for doors 2" thick; No. 2-1/4 for doors 2-1/4" thick; No. 3 for doors 3" thick.

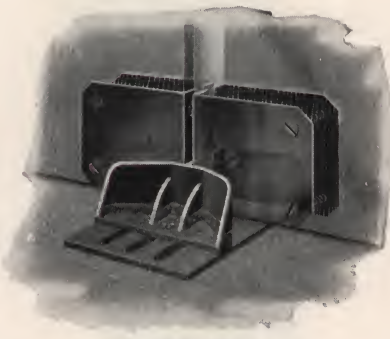
Can be fastened to floor or imbedded in concrete. Made of gray iron. Height, 2-1/2". Finish, gray enamel. Weight, per hundred, No. 2, 350 lbs.; No. 2-1/4, 380 lbs.; No. 3, 400 lbs. Packed in bulk, less bolts.



No. 271

•No. 271 Adjustable Floor Center Door Guide

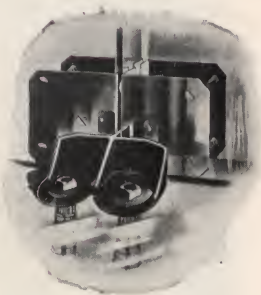
For pairs of sliding garage doors 1-3/4" to 3" thick with concrete or wood floors. With concrete floors the base should be set into the concrete about 3/4". Made of steel and gray iron. Height, 1-7/8". Finish, gray enamel. Weight, per hundred, 255 lbs. Packed in bulk with wood screws and expansion shields.



No. 371

•No. 371 Adjustable Floor Center Door Guide and Stop

For pairs of sliding doors 1-3/4" to 3" thick with concrete or wood floors. When used with concrete floors the base should be set into concrete about 3/4". Made of steel and malleable iron. Height, 1-15/16". Finish, gray enamel. Weight, per hundred, 230 lbs. Packed in bulk with wood screws and expansion shields.



No. 571

•No. 571 Adjustable Floor Center Door Guide and Stop

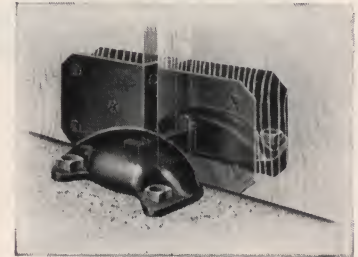
For pairs of sliding doors 1-3/4" thick or over on either wood or concrete floors. Not necessary to set guide proper into concrete. Malleable iron. Two pieces make it adjustable. Height, 1-1/2". Expansion bolts furnished for attaching. Finish, gray enamel. Weight, per hundred, 230 lbs.

Door Guides, Stops and Binders

NOTE: Bottom of doors which come into contact with guides should be protected by steel bumper shoes which must be ordered separately.

●No. 671 Heavy Warehouse Door Guide

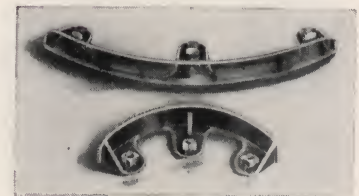
Designed for severe service. Adjustable for extra heavy doors 1-3/4" to 3-1/2" thick. Consists of two heavy cast iron guides which bolt to floor on each side of door and removable steel center stop piece. Expansion bolts not included. Finish, gray enamel. Packed in bulk. Weight, each, 10-1/2 lbs.



No. 671

●No. 771 Door Guide

For four-fold garage doors of any thickness equipped with electric operator. Two malleable iron pieces, one 18" wide, the other 10-3/4" wide. On out opening doors place long piece on inside and short piece on outside of opening. Lag screws furnished for attaching. Finish, gray enamel. Weight, each, 6-1/2 lbs.



No. 771

●No. 272 End Door Guide and Stop

For garage doors 1-3/4" to 3" thick with wood or concrete floors. With concrete floors, base should be set into concrete about 3/4". Steel and gray iron. Height, 1-15/16". Finish, gray enamel. Packed with wood screws and expansion shields. Weight, each, 2 lbs.



No. 272

●No. 572 End Stop and Binder

Made in three sizes:

No. 1, for straight sliding doors, any thickness.

No. 2, for two parallel sliding doors 1-3/4" to 2" thick.

No. 3, for two parallel sliding doors 2-1/4" to 3" thick.

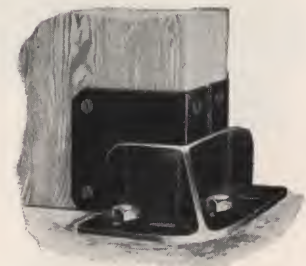
Height, all sizes, 2-1/4". Door receiving space: No. 1, 2" x 2";

No. 2, 4" x 4"; No. 3, 5-1/2" x 5-1/2". Malleable iron. Re-

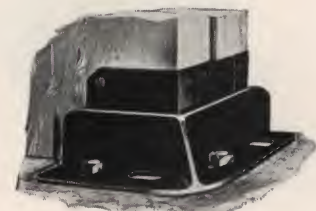
versible for right or left hand. Adjustable to and from wall.

Finish, gray enamel. Packed in bulk, less screws. Weight, each:

No. 1, 1-3/4 lbs.; No. 2, 3 lbs.; No. 3, 4 lbs.



No. 572-1



No. 572-2 or 572-3

Guides and Tracks



No. 736 Door and Floor Guide

●No. 736 Floor Guide

Especially desirable for parallel doors. Can be set into concrete or wood floors. Composed of two steel strips, assembled with space between, making a groove through which the door guide slides. Heavy steel, 3/8" x 3-1/2". Finish, gray enamel. Weight, per foot, 9 lbs. Packed less screws.



No. 738 x 536 for Single Door

●No. 736 Door Guide

Steel, 3/16" by 4". Bolts spaced on 24" centers. In ordering, state thickness and width of door; whether single, double, or triple parallel doors; width of opening; and always send floor plan. Weight, per foot, 2-1/2 lbs. Packed less screws.

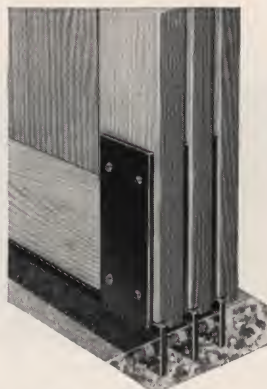


No. 738 x 536 for Double Doors

●No. 738 Guide Plates

For Single, Double, or Triple Doors

Attached near each end of door making two points of contact between plates and track. Steel, 6" wide, 11" high, 1/4" thick. Dado, 3/4" x 3/4", cut out of bottom of door along inside face providing runway for track. Weight, each, 4-3/4 lbs. Packed less screws.



No. 738 x 536 for Triple Doors

●No. 536 Door Guide Tracks

For Single, Double, or Triple Doors

Projects above floor but doesn't interfere with driving in or out of garage.

Single track supplied with anchors which can be fastened in place while pouring concrete. Spacing of double and triple tracks can be adjusted for any thickness doors. Weight, per foot: No. 1, 5 lbs.; No. 2, 10 lbs.; No. 3, 15 lbs. Packed less screws.

Door Binders

●No. 89 Adjustable Door Binder and Stop

For doors 1-3/4" to 3" thick. Three-piece construction, base 3/16" thick, brace 1/8" thick by 1-3/4" wide. Attached with 7/16" lag screws or bolts.

End is flared to receive door. May be used at front or back of door.

Finish, gray enamel.

Packed two in a box with screws.

Weight, per hundred, 179 lbs.



No. 89

●No. 69 Steel Bumper

Steel, 1/4" thick by 2" wide for any size door. Finish, gray enamel. Packed in bulk. Weight, per hundred, 110 lbs.



No. 69

●No. 82 Steel Binder

Steel, 1/4" thick by 2" wide for seven thicknesses of doors. Finish, gray enamel. Packed in bulk.

Catalog No.....	82-1	82-2	82-3	82-4	82-5	82-6	82-7
Thickness of Door	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	3"
Weight, Ea., Lbs.	1-1/2	1-1/2	1-3/4	1-3/4	1-3/4	2	2



No. 82

●No. 102-95 Steel Binder

Steel, 3/8" thick by 3-1/2" wide for doors 1-3/4" or 2-1/2" thick. Attached with two bolts. Finish, gray enamel. Packed in bulk.

Catalog No.....	102-95-2	102-95-3
Thickness of Door.....	1-3/4"	2-1/2"
Weight, Each	5 lbs.	5 lbs.



No. 102-95



No. 739-1 Floor Guide

•No. 739-1 Floor Guide

For doors 1-3/8" and over.

Number of guides should equal number of hangers used on doors.

Should be located directly in line with hangers on folding doors. Rollers held in contact with the guide by light spring pressure; swivels when used with folding doors. Finish, gray enamel. Wrapped singly with screws. Weight, each: No. 739-1, 1 lb.

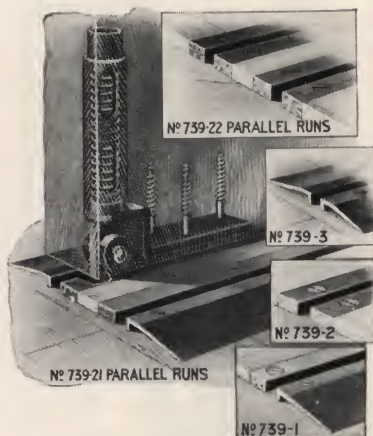
•No. 739 Floor Guide Tracks

Used in connection with No. 237 installations and sliding parallel doors and No. 739-1 guides only.

No. 739-3 when set on top of floor forms raised threshold with beveled strip on each side. When more than one door is used as parallel or flush doors, flat track is used in center, the space between filled with 3/8" hardwood flooring. If room has 3/8" flooring, beveled track can be left out and only flat track used, which should be put in place before floor is laid.

When ordering, send sketch or floor plan of track with dimensions. State whether to be raised or flush threshold. Give number of doors. Parallel or flush doors require two guides to each door; accordion doors, one to each door.

Finish, gray enamel.



No. 739 Floor Guide Tracks

Cat. No.	Description	Weight per Foot
739- 1-TK	Bevel and flat, single door.....	3/4 lb.
739-21-TK	Bevel and flat, two doors.....	1-1/2 lbs.
739-31-TK	Bevel and flat, three doors.....	2 lbs.
739- 2-TK	Flat track, single door.....	1 lbs.
739-22-TK	Flat track, two doors.....	2 lbs.
739-32-TK	Flat track, three doors.....	3 lbs.
739- 3-TK	Bevel track, single door.....	1/2 lb.



No. 216-1, 4, 5 Weatherstrip for Vertical Edge of Doors

No. 216 Rubber Weatherstrip

•No. 216-1, 4, 5 Vertical Rubber Weatherstrip

For center of opening containing two hinged doors or center of four-door sliding-folding opening. For doors 1-3/4" to 3" thick.

Cat. No.	Door Thick.	Material	Color
216-1	1 3/4" to 3"	Neoprene	Gray
216-4	1 3/4" to 2 1/4"	Neoprene	Gray
216-5	2 1/4" to 3"	Neoprene	Gray

Neoprene will be furnished unless otherwise specified.

The Neoprene type has great resistance against oil, gasoline, sunlight, heat and cold. Which is ideal for all industrial and commercial applications.

•No. 216-2 Bottom Edge Rubber Weatherstrip

For attachment to bottom of door; 3/4" space between bottom of door and floor is recommended.

Consists of one gray enameled steel bar and a heavy neoprene rubber strip 2-1/2" wide.

Steel protective plates for lower corner of door recommended when floor guides are used at center of doorway.



Steel Protective Plates Prevent Weatherstrips from Being Damaged by Floor Guides



No. 216-2 Weatherstrip for Bottom Edge of Doors with Steel Bars

Woodworking Vises

•Two Styles

No. 430S for rapid action, sliding vise.

Equipped with quick acting two piece cam operated nut.

No. 630S for continuous action screw operation.

•Three Sizes

Both styles above made in three sizes with stop in jaw.

No. 1—For bench tops up to 1-3/4" thick. Jaws, 7" wide, 4" deep, open 10"; screw 1" diameter, 4 threads to the inch.

No. 2—For bench tops 1-3/4" to 3" thick. Jaws, 10" wide, 5" deep, open 12"; screw 1" diameter, 4 threads to the inch.

No. 3—For bench tops up to 2-1/2" thick. Jaws, 7" wide, 4-3/4" deep, open 10"; screw 1" diameter, 4 threads to the inch.

•Construction

Jaws, gray iron with working surfaces ground and finished. Guide rods, cold rolled steel. Ends connected by malleable iron yoke.

No. 430 quick acting nut, nut proper, phosphor bronze; nut sleeve, malleable iron.

No. 630 nut, solid cast iron.

•Operation

No. 430 rapid acting vise. Nut is released and completely disengaged from screw by a slight anti-clockwise movement of handle thereby permitting jaw to be moved backward or forward freely. When handle is turned in clockwise manner, nut immediately engages screw, and vise operates like a continuous screw vise.

No. 630 continuous action screw operation vise.

•Weight

Nos. 430S and 630S-1—32 lbs. each.

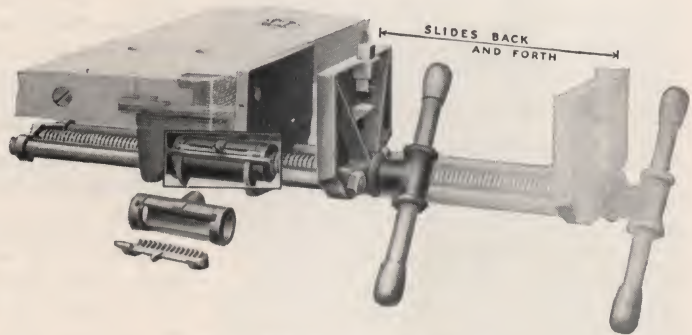
Nos. 430S and 630S-2—42 lbs. each.

Nos. 430S and 630S-3—36 lbs. each.

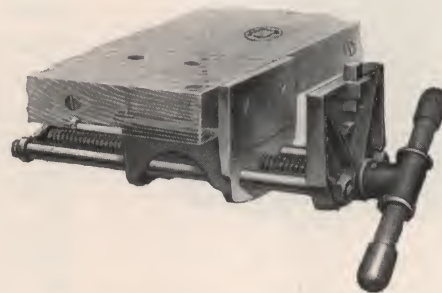
No. 430 quick acting nut—1-1/4 lbs.

No. 430 nut sleeve—1 lb.

No. 430 nut thread—1/4 lb.



No. 430S Quick Acting Vise



No. 630S Continuous Action Vise



No. 360 Bench Stop Housing, Malleable Iron, 2-9/16" Diameter. Stop Proper, Steel. Quick Adjusting. Finish, Cadmium Plate. Weight per Hundred, 75 Lbs. Packed 6 to a Box



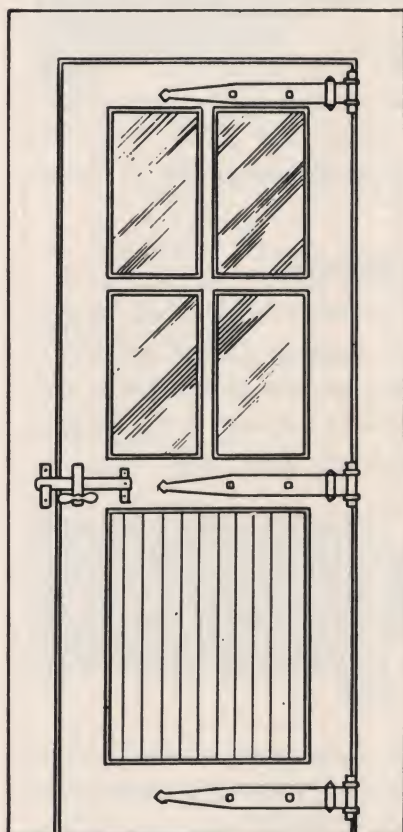
No. 360 Metal Dog Polished Cold Rolled Steel. Fits Holes Across End of Bench Providing Positive Stop

Hardware Sets for Single and Pairs of Swinging Doors

For Inside or Outside Installations

To Order: Merely Specify Catalog Number, Width and Height of Opening and Kind of Frame, Wood or Metal

SINGLE HINGED DOOR



These Complete Sets Contain:

- 1 No. 546 Door. 1 No. 225 Latch.
- *No. BB-1036 Hinges, for wood frame.
- *No. BB-1035 Hinges, for metal frame.

SPECIFICATION TABLE

For Openings with Wood Frames

†Catalog Number	Height, Opening	Latch
1546—1-3/4—1036	Up to 10'	225-1
1546—2-1/4—1036	Not over 12'	225-3
1546—2-1/2—1036	Not over 12'	225-3
1546—2-3/4—1036	Not over 12'	225-3

- *3 hinges furnished with doors up to 10' high.
- *4 hinges furnished for higher doors.
- *19" hinges furnished for doors to 3' 11" wide.
- *24" hinges furnished for doors 4'—4' 5" wide.
- *30" hinges furnished for doors 4' 6"—5' 0" wide.

†1-3/4, 2-1/4, 2-1/2, and 2-3/4 designate thickness of door.

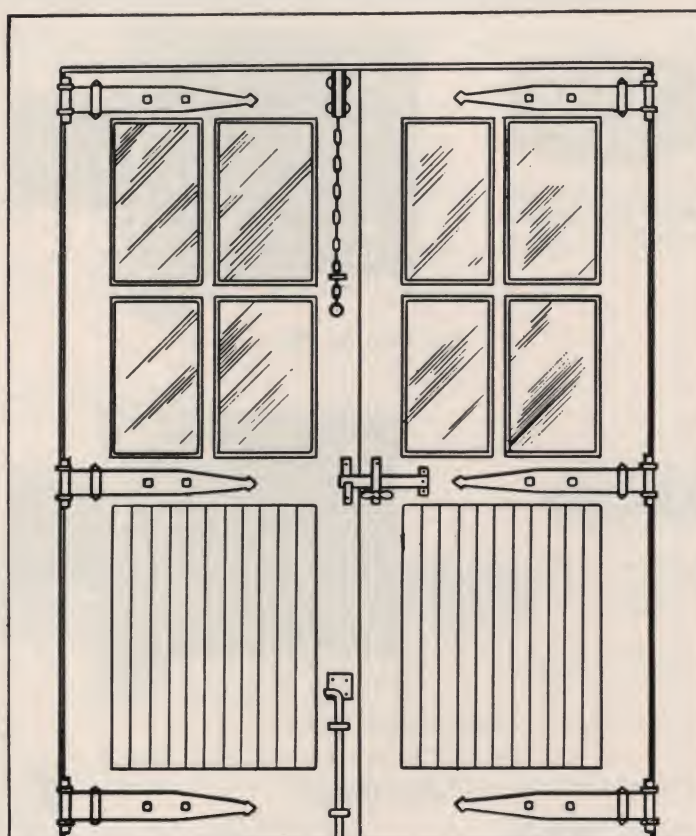
‡If steel frames are used change the 1036 in catalog number to 1035, example: 1546—1-3/4—1035.

Doors are built to STANDARD DESIGNS, but laminated wood panels will be furnished in place of openings for glass if so requested.

No glass, glazing, or painting included, but each wood panel member and the complete door is treated with deep penetrating oil.

Although this page illustrates SWINGING DOORS, we can furnish the same door in SLIDE FOLD, SLIDE AROUND THE CORNER, VERTICAL LIFT OR TURNOVER types. Detailed information furnished on request.

PAIR HINGED DOORS



These Complete Sets Contain:

- 2 No. 546 Doors. 1 No. 225 Latch.
- 1 No. 514 Bolt. 1 No. 524 Bolt.
- *No. BB-1036 Hinges, for wood frame.
- *No. BB-1035 Hinges, for metal frame.

SPECIFICATION TABLE

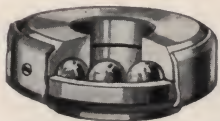
For Openings with Wood Frames

†Catalog Number	Height, Opening	Latch
2546—1-3/4—1036	Up to 10'	225-1
2546—2-1/4—1036	Not over 12'	225-3
2546—2-1/2—1036	Not over 12'	225-3
2546—2-3/4—1036	Not over 12'	225-3

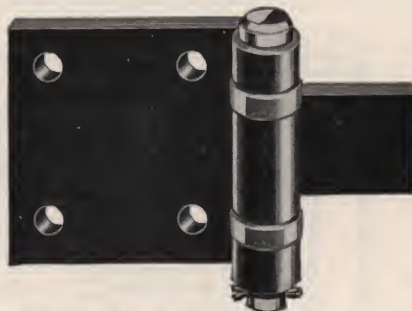
- *6 hinges furnished with doors up to 10' high.
- *8 hinges furnished for higher doors.
- *19" hinges furnished for doors to 3' 11" wide.
- *24" hinges furnished for doors 4'—4' 5" wide.
- *30" hinges furnished for doors 4' 6"—5' 0" wide.



Hinge Data Required for Ordering



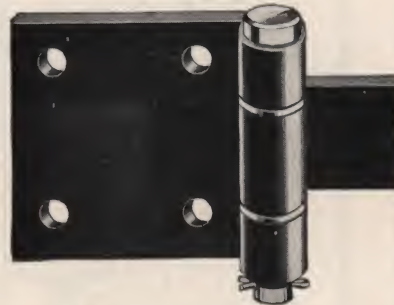
Ball Bearing Unit, Cadmium Plated. Balls Are Packed in Grease.



Ball Bearing Type

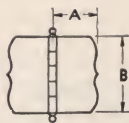
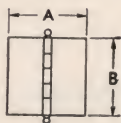


Hardened Disc Bearing, Cadmium Plated.

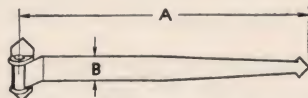
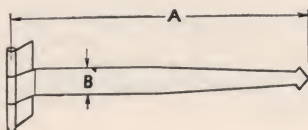
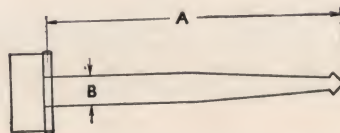
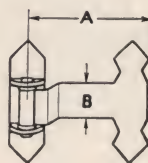
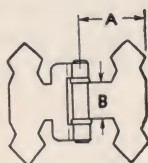


Disc Bearing Type

Butt Hinges



Surface, Strap and Jamb Hinges



•Use

For large industrial doors, railroads, roundhouses and shop doors, public garage doors, and other doors on large openings subjected to rough usage.

•Types of Bearings

Two types are available: ball bearing and disc bearing. If ball bearing is preferred, use the prefix "BB" with hinge catalog number. If disc bearing is desired, use prefix "DB."

Both "DB" and "BB" units and pintle pins are cadmium plated.

•How to Order

Specify catalog number of hinge desired.

1. State exact size of both hinge straps and pintles. If possible, send sketch of door, jamb and hinges.
2. Bolts for attaching hinges to door and jamb can be furnished at an extra cost, if thickness of door and type of jamb is given.

•Hinge Dimensions

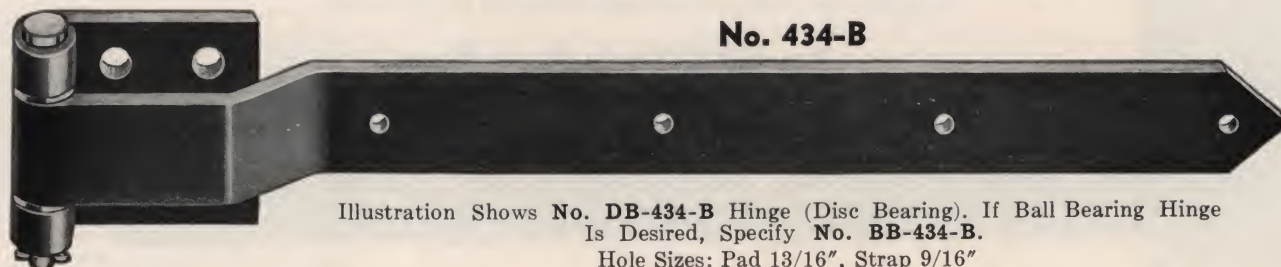
Give left to right measurement "A" before height measurement "B."

For butt hinges, "A" equals over-all dimension with leaves open.

For surface, strap, and jamb hinges, "A" equals distance from center of pintle pin to extreme edge of longest strap or leaf.



Heavy Industrial Door Hinges



No. 434-B

Illustration Shows **No. DB-434-B** Hinge (Disc Bearing). If Ball Bearing Hinge Is Desired, Specify **No. BB-434-B**.
Hole Sizes: Pad 13/16", Strap 9/16"

•Use

For heavy swinging doors or for No. 434 installations.

No. 434-B. Pintle attached to face of the jambs so doors will clear doorway when standing open at right angles to wall.

No. 434-D. Pintle attached to face of the wall so doors can swing around parallel to wall.

No. 434-W. Pintle attached to face of the wall so doors can swing around parallel to wall.

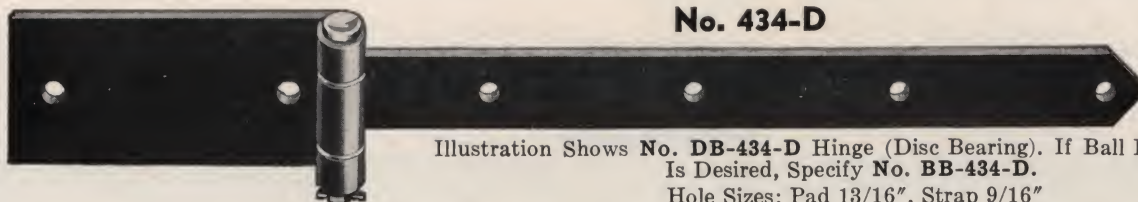
•Construction

Stock (see table below).

Bolt holes made to match those in No. 434-J and 434-K hinges.

•Finish

Gray enamel, regular. Galvanized available when specified.



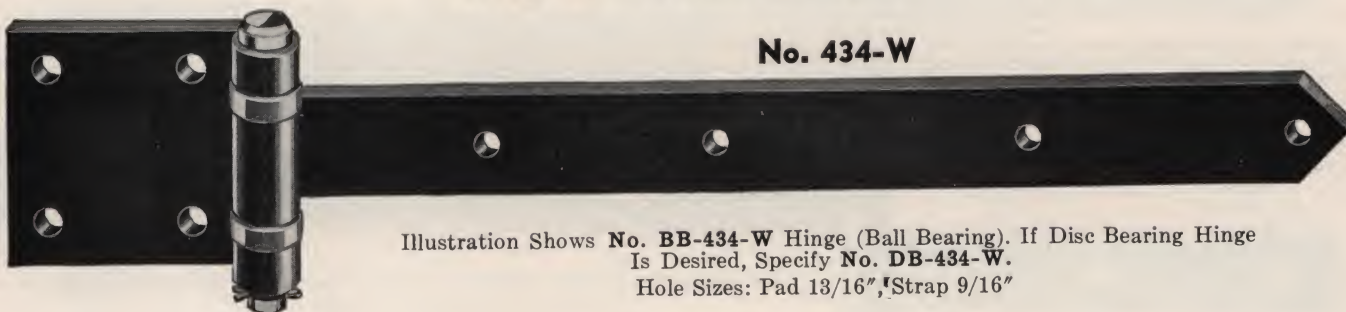
No. 434-D

Illustration Shows **No. DB-434-D** Hinge (Disc Bearing). If Ball Bearing Hinge Is Desired, Specify **No. BB-434-D**.
Hole Sizes: Pad 13/16", Strap 9/16"

Weight and Dimension Table—Nos. 434-B, 434-D, and 434-W Hinges

LENGTH OF STRAPS	Strap $\frac{3}{4}$ x $2\frac{1}{2}$ " DB Pintle 6" High BB Pintle 7" High Pintle Pin $\frac{3}{4}$ " Diam.			Strap $\frac{3}{4}$ x 3" DB Pintle 7" High BB Pintle 8" High Pintle Pin $\frac{3}{4}$ " Diam.			Strap $\frac{1}{2}$ x 3" DB Pintle 7" High BB Pintle 8" High Pintle Pin 1" Diam.			Strap $\frac{1}{2}$ x 4" DB Pintle 9" High BB Pintle 10" High Pintle Pin 1" Diam.			
	SHIPPING WEIGHTS, DISC BEARING, PER PAIR, POUNDS												
	434-B	434-D	434-W	434-B	434-D	434-W	434-B	434-D	434-W	434-B	434-D	434-W	
Up to 3' 0"	36	36	36	42	42	42	56	56	56	83	83	83	
3' 1" to 4' 0"	42	42	42	50	50	50	67	67	67	96	96	96	
4' 1" to 5' 0"	49	49	49	58	58	58	78	78	78	110	110	110	
5' 1" to 6' 0"	55	55	55	66	66	66	88	88	88	124	124	124	
	SHIPPING WEIGHTS, BALL BEARING TYPE, PER PAIR, POUNDS												
	Up to 3' 0"	39	39	39	45	45	45	60	60	60	88	88	88
	3' 1" to 4' 0"	45	45	45	53	53	53	71	71	71	91	91	91
	4' 1" to 5' 0"	52	52	52	61	61	61	82	82	82	115	115	115
	5' 1" to 6' 0"	58	58	58	69	69	69	92	92	92	129	129	129

See Page 146 for Directions for Ordering.



No. 434-W

Illustration Shows **No. BB-434-W** Hinge (Ball Bearing). If Disc Bearing Hinge Is Desired, Specify **No. DB-434-W**.
Hole Sizes: Pad 13/16", Strap 9/16"

Heavy Industrial Door Hinges

(See Page 146, for Directions for Ordering)

No. 434-C Single Strap Hinge



Illustration Shows **No. DB-434-C** (Disc Bearing). If Ball Bearing Hinge Is Desired, Specify **No. BB-434-C**.

Hole Sizes: Pad 13/16", Strap 9/16"

•Use

For very heavy swinging doors or No. 434 installations.

No. 434-C. For installations with wood doors, the pintle being attached to steel frames.

No. 434-CC. For installations where pintle is attached to columns between two adjacent doorways.

No. 434-E. For installations using wood doors, pintle to be attached to brick or masonry face of wall.

•Construction

Stock (see table below).

Bolt holes match those in No. 434-J and 434-K hinges.

•Finish

Gray enamel, regular. Galvanized available when specified.

No. 434-CC

Double Straight Strap Hinge

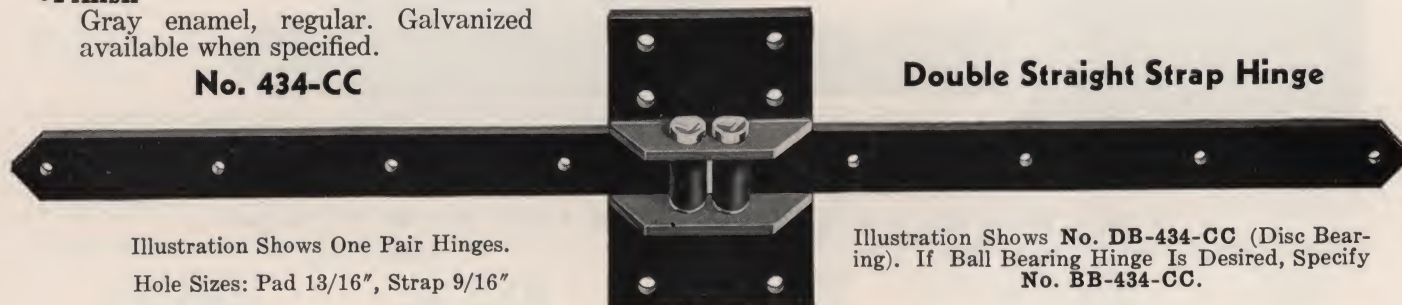


Illustration Shows One Pair Hinges.

Hole Sizes: Pad 13/16", Strap 9/16"

Illustration Shows **No. DB-434-CC** (Disc Bearing). If Ball Bearing Hinge Is Desired, Specify **No. BB-434-CC**.

Weight and Dimension Table—Nos. 434-C, 434-CC, and 434-E Hinges

LENGTH OF STRAPS	Strap 1/2 x 2 1/2" High *DB Pintle 13 1/4" High *BB Pintle 14 1/4" High Pintle Pin 3/4" Diam.			Strap 3/8 x 3" High *DB Pintle 14 1/4" High *BB Pintle 14 1/4" High Pintle Pin 3/4" Diam.			Strap 1/2 x 3" High *DB Pintle 14 1/4" High *BB Pintle 15 1/4" High Pintle Pin 1" Diam.			Strap 1/2 x 4" High *DB Pintle 15 1/4" High *BB Pintle 16 1/4" High Pintle Pin 1" Diam.		
	434-C	434-CC	434-E	434-C	434-CC	434-E	434-C	434-CC	434-E	434-C	434-CC	434-E
Up to 3' 0"	35	35	36	39	39	43	53	53	57	65	65	76
3' 1" to 4' 0"	41	41	42	47	47	50	63	63	67	78	78	89
4' 1" to 5' 0"	48	48	49	55	55	58	73	73	77	92	92	103
5' 1" to 6' 0"	54	54	55	62	62	66	83	83	88	105	105	116
SHIPPING WEIGHTS, BALL BEARING, PER PAIR, POUNDS												
Up to 3' 0"	37	37	37	41	41	44	56	56	59	68	68	78
3' 1" to 4' 0"	43	43	43	49	49	51	66	66	69	71	71	81
4' 1" to 5' 0"	50	50	50	57	57	59	76	76	79	95	95	105
5' 1" to 6' 0"	56	56	56	64	64	67	86	86	90	108	108	118

*No. 434-E Pintles are same height as width of hinge strap.

Note—The above hinges are always built special, as required. When ordering be sure to furnish us with a sketch of the jamb and doors or the exact length of the hinges. Bolts for attaching the hinges to the doors will be furnished at an extra cost with the hinges providing the thickness of the doors is stated on the order. Pintle Bolts when ordered are furnished at an extra price.

No. 434-E Strap Hinge

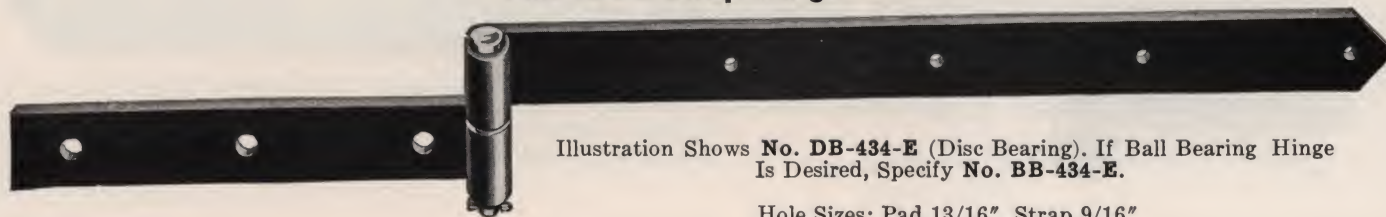


Illustration Shows **No. DB-434-E** (Disc Bearing). If Ball Bearing Hinge Is Desired, Specify **No. BB-434-E**.

Hole Sizes: Pad 13/16", Strap 9/16"

Heavy Industrial Door Hinges

No. 434-J Double Strap Flat Hinges

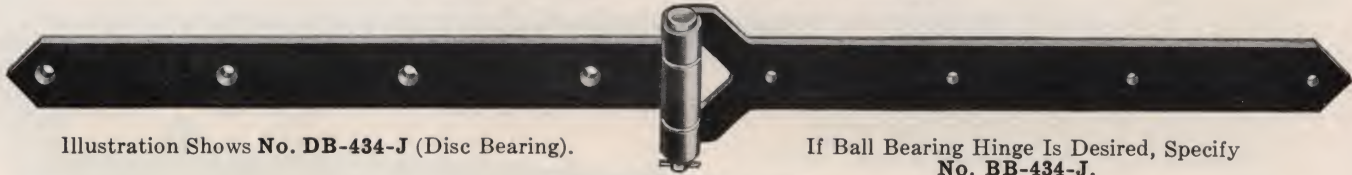


Illustration Shows **No. DB-434-J** (Disc Bearing).

If Ball Bearing Hinge Is Desired, Specify
No. BB-434-J.

Hole Sizes: Straps 9/16"

•Use

For large folding doors.
No. 434-J. For doors opening inside the building.
No. 434-K. For doors which open outside the building.

•Construction

Stock (see table below).
Bolt holes match those in Nos. 434-B, C, CC, D, and E hinges.

(See Page 146 for
Directions for Ordering)

•Finish

Gray enamel, regular. Galvanized available when specified.

No. 434-K Double Strap Offset Hinges

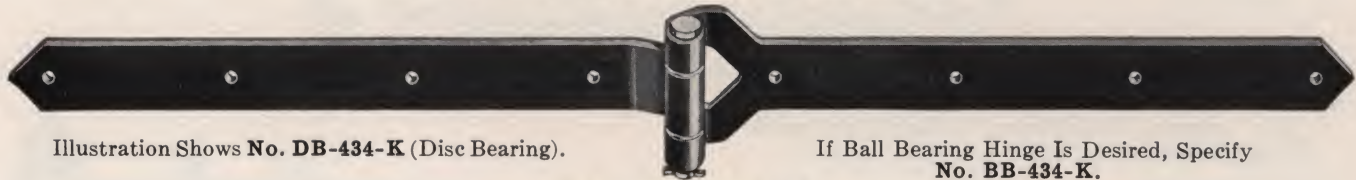


Illustration Shows **No. DB-434-K** (Disc Bearing).

If Ball Bearing Hinge Is Desired, Specify
No. BB-434-K.

Hole Sizes: Straps 9/16"

Weight and Dimension Table—Nos. 434-J and 434-K Hinges

LENGTH OF STRAPS	Strap 3/4 x 2 1/4" DB Pintle 5" High BB Pintle 7" High Pintle Pin 3/4" Diam.		Strap 3/4 x 3" DB Pintle 6" High BB Pintle 8" High Pintle Pin 3/4" Diam.		Strap 3/4 x 3" DB Pintle 6" High BB Pintle 8" High Pintle Pin 1" Diam.		Strap 3/4 x 4" DB Pintle 7" High BB Pintle 9" High Pintle Pin 1" Diam.	
	434-J	434-K	434-J	434-K	434-J	434-K	434-J	434-K
Up to 3' 0"	45	45	54	54	72	72	95	95
3' 1" to 4' 0"	58	58	70	70	92	92	122	122
4' 1" to 5' 0"	71	71	85	85	113	113	150	150
5' 1" to 6' 0"	84	84	100	100	133	133	177	177
SHIPPING WEIGHTS, BALL BEARING, PER PAIR, POUNDS								
Up to 3' 0"	48	48	56	56	75	75	98	98
3' 1" to 4' 0"	61	61	72	72	95	95	125	125
4' 1" to 5' 0"	74	74	87	87	116	116	153	153
5' 1" to 6' 0"	87	87	102	102	136	136	180	180

Note—The above hinges are always built special, as required. When ordering be sure to furnish us with a sketch of the jamb and doors or the exact length of the hinges. Bolts for attaching the hinges to the doors will be furnished at an extra cost with the hinges providing the thickness of the doors is stated on the order.

No. 1055 Heavy Strap Hinge (Plain Bearing Only)

Has Loose Pin



Hole Sizes: Straps 9/16"

Catalog Number	Thickness Stock	Strap Height	Strap Length	Pin Height	Hinge Pin Diameter	Weight Approximate per Pair
1055-2 1/2	3/8"	2 1/2"	As Required	5 1/2"	3/4"	16 lbs.
1055-3	3/8"	3"	As Required	6 1/2"	3/4"	19 lbs.

Gray enamel, regular. Galvanized available when specified. Bolts furnished at extra cost if desired.

No. 1035 Heavy Offset Hinges

•Use

For garage, warehouse, factory, or other heavy doors.

•Construction

Pintle can be set far enough from edge of opening so any number of doors will clear opening when standing at right angles to doorway.

Adjustable clip bolts to door near edge.

Hinge clips are not furnished on 12" and 15" hinges.

Regularly furnished with cadmium plated disc-bearings (DB-1035).

If specified, furnished with cadmium plated ball-bearing units at extra cost (BB-1035).

Pintle pin, 1/2" diameter, cadmium plated.

Pintle pad holes spaced on 5-1/2" centers.

•Packed

In bulk.

•Finish

Gray enamel, regular.

Galvanized available when specified.



Illustration Shows **No. DB-1035** (Disc-Bearing).

If Ball-Bearing Is Desired, Specify **No. BB-1035**.

Hole Sizes: Pad 9/16"; Strap and Clip 13/32"

Dimension and Weight Table—1035 Hinges

Size of Strap	Pintle Stock	Wt., Lbs. per Pair	Size of Strap	Pintle Stock	Wt., Lbs. per Pair
12 x 2 1/2 x 1/4"	1 3/4"	8	30 x 2 1/2 x 5/16"	1 3/4"	17
15 x 2 1/2 x 1/4"	1 3/4"	9	36 x 2 1/2 x 5/16"	1 3/4"	20
19 x 2 1/2 x 1/4"	1 3/4"	11	42 x 2 1/2 x 5/16"	2 1/2"	24
24 x 2 1/2 x 1/4"	1 3/4"	13	48 x 2 1/2 x 5/16"	2 1/2"	26

(See Page 146 for Directions for Ordering)

No. 1045 Extra-Heavy Offset Hinges

•Use

For garage, warehouse, factory, or other heavy doors.

•Construction

Similar to No. 1035 described above except that this hinge is made of heavier material. Hinge clips furnished on all sizes.

•Packed

In bulk.

•Finish

Gray enamel, regular. Galvanized available when specified.



Illustration Shows **No. DB-1045** (Disc-Bearing).

If Ball-Bearing Is Desired, Specify **No. BB-1045**.

Hole Sizes: Pad 11/16"; Strap and Clip 13/32"

Dimension and Weight Table—1045 Hinges

Size of Strap	Pintle Stock	Wt., Lbs. per Pair	Size of Strap	Pintle Stock	Wt., Lbs. per Pair
30 x 3 x 1/4"	5/16 x 3"	26	42 x 3 x 1/4"	5/16 x 3"	31
36 x 3 x 1/4"	5/16 x 3"	30	48 x 3 x 1/4"	5/16 x 3"	32 1/2

No. 1039 Reversible Pintle Hinges

•Use

As a reverse pad hinge as shown by large illustration, a mortised pintle (detail "B"), or a surface hinge (detail "C").

•Construction

The 10" and 12" hinges have plain bearings, "PB." The 18" and 24" hinges have disc-bearings (cadmium plated) "DB."

Holes in strap are not countersunk. When bolts or screws are required, should be round head.

•Packed

In bulk.

•Finish

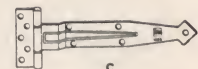
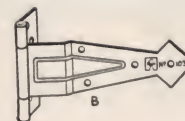
Gray enamel, regular. Galvanized available when specified.



Hole Sizes: Pad 11/32"; Strap 9/32"

Dimension and Weight Table—1039 Hinges

Catalog No.	Strap Size	Pintle Size	Wt., Lbs. per Pair
PB-1039	10 x 2 1/8"	2 1/8 x 5 1/2"	3 1/2
PB-1039	12 x 2 1/8"	2 1/8 x 5 1/2"	4
DB-1039	18 x 2 1/8"	2 1/8 x 7"	6
DB-1039	24 x 2 1/8"	2 1/8 x 7"	7 1/2



Richards-Wilcox

No. 1036 Heavy Strap Hinge with Mortise Pintle



Illustration Shows No. DB-1036 (Disc-Bearing). If Ball-Bearing Hinge Is Desired, Specify No. BB-1036.

Hole Sizes: Pad $1\frac{1}{32}$ "; Strap $1\frac{1}{32}$ ". In All Sizes Except 36" Hinge, holes in Pad are $1\frac{1}{32}$ ".

Dimension and Weight Table—1036 Hinges

Size of Strap	Height of Pintle	Wt., Lbs. per Pair	Size of Strap	Height of Pintle	Wt., Lbs. per Pair
10 x $2\frac{1}{4}$ " x $\frac{3}{8}$ "	6"	6½	30 x 3" x $\frac{1}{4}$ "	7"	15
12 x $2\frac{1}{4}$ " x $\frac{3}{8}$ "	6"	7	36 x 3" x $\frac{1}{4}$ "	7"	18
18 x $2\frac{1}{4}$ " x $\frac{3}{8}$ "	6"	8½	42 x 3" x $\frac{1}{4}$ "	7"	21
24 x $2\frac{1}{4}$ " x $\frac{3}{8}$ "	6"	10	48 x 3" x $\frac{1}{4}$ "	7"	25

No. 1040 Heavy Double Strap Surface Hinges



Illustration Shows No. DB-1040 (Disc-Bearing). If Ball-Bearing Hinge Is Desired, Specify No. BB-1040.

Hole Sizes: Strap $1\frac{1}{32}$ "

•Use

For in-opening installations where Nos. 1035 or 1036 hinges are used in jambs.

•Construction

Wrought steel, $\frac{1}{4}$ " thick. Each leaf, 15" long, $2\frac{1}{2}$ " high.
Pintle, $4\frac{7}{8}$ " high.
Tight pintle pin, $\frac{1}{2}$ " diameter.
Regularly furnished with cadmium plated disc-bearings (DB-1040).
Ball-bearing units (BB-1040) may be had if ordered.
Can be furnished holeless so holes may be drilled on job to match other hinges.

•Packed

In bulk without bolts.

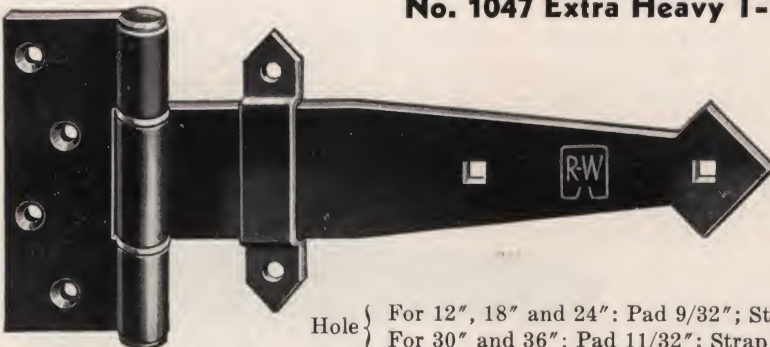
•Finish

Gray enamel, regular. Galvanized available when specified.

•Weight

Per pair, 10 lbs.

No. 1047 Extra Heavy T-Type Hinge



Hole { For 12", 18" and 24": Pad $\frac{9}{32}$ "; Strap $1\frac{1}{32}$ "
For 30" and 36": Pad $1\frac{1}{32}$ "; Strap $1\frac{1}{32}$ "

Dimension and Weight Table—1047 Hinges

Size of Strap	Stock	Size of Pintle	Wt. Lbs. per Pair	Size of Strap	Stock	Size of Pintle	Wt. Lbs. per Pair
12 x $2\frac{1}{2}$ "	$\frac{3}{8}$ "	$2\frac{5}{8}$ " x 6"	6	30 x 3"	$\frac{1}{4}$ "	$2\frac{5}{8}$ " x 7"	10
18 x $2\frac{1}{2}$ "	$\frac{3}{8}$ "	$2\frac{5}{8}$ " x 6"	7¼	36 x 3"	$\frac{1}{4}$ "	$2\frac{5}{8}$ " x 7"	18
24 x $2\frac{1}{2}$ "	$\frac{3}{8}$ "	$2\frac{5}{8}$ " x 6"	8½				

(See Page 146 for Directions for Ordering)

No. 03 Heavy Hinges for Fire Doors, Gates and Industrial Doors

●No. 03-1

For flush doors and 1-3/4" and 2-3/4" lap doors.

To order, state thickness of wall and thickness of door, and whether doors are flush or lap.

Unless otherwise specified, pintles for 2-1/2" lap doors will be sent. Machine bolt and washer furnished with pintle included in price of hinge. Extra charge for carriage bolts for attaching hinge strap to door.

Packed in bulk.



No. 03-1 for Lap Doors
Hole Size: Strap 7/16"

●No. 03-2

Hinge strap, steel. Loose pintle pin. No machine bolts furnished.

●No. 03-3

Hinge strap, steel. Loose pintle pin. No machine bolts furnished.

●No. 03-4

Hinge strap, steel. Loose pintle pin. No machine bolts furnished.



No. 03-1 with Flush Door Pintle
Pintle Hole 3/4" Tapped

Information and Weight Table
In Pounds per Pair

Length	03-1	03-2	03-3	03-4
15"	16	13	10-1/2	15
18"	18	14	12	16-1/2
21"	19	16	13-1/2	18
24"	21	18	14-1/2	20
30"	24	21	17	23
36"	27	24	19-1/2	26
42"	30	27	23	29
48"	33	30	25	33

Weights figured for 12" wall. For 18" wall weights, add 1-1/2 lbs. to 12" weight. For 24" wall weights, add 3 lbs. to 12" weight.

Pintle	Malleable	Malleable	Malleable or Steel
Pintle Size...	*	4 1/2" x 3 1/2"	7" x 2 1/4"
Hinge Straps..	3/8" x 2 1/2"	3/8" x 2 1/2"	3/8" x 2 1/2"
Pintle Pin. ...	3/4"	3/4"	1/2"

Packed.....	In Bulk
Finish.....	Gray enamel

*Malleable and Steel Pintle combined with machine bolts to go through wall. Be sure to state thickness of wall when ordering.



No. 03-2
Hole Sizes: Pad 17/32"; Strap 7/16"

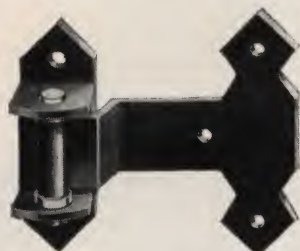


Nos. 03-3 and 03-4
Hole Sizes: No. 03-3 Pads, 7/16"; No. 03-4 Pads, 9/16"; Strap Sizes for Both, 7/16"

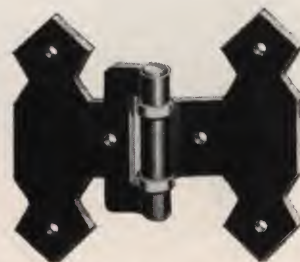
Heavy Jamb and Surface Hinges

For Glass Paneled Doors

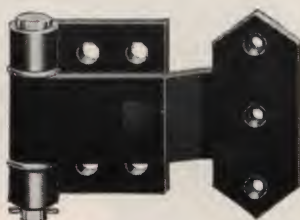
Note — DB before the catalog number indicates that hinges are equipped with disc bearings; BB indicates equipped with ball bearing units. When ordering: Mention type of bearings desired; furnish us with sketch of the jamb and doors or the exact length of the hinges. Bolts for attaching hinges will be furnished at an extra cost providing the thickness of the doors is stated on the order. Hinges are always built special, as required.



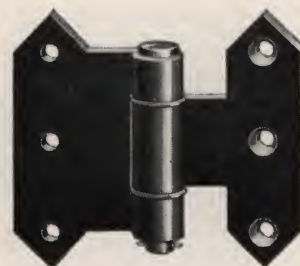
No. BB-1139 Ball Bearing Hinge shown. If Disc Bearing Is Desired, Specify **No. DB-1139**



No. BB-1140 Ball Bearing Hinge shown. If Disc Bearing Is Desired, Specify **No. DB-1140**



No. DB-1041 Disc Bearing Hinge shown. If Ball Bearing Is Desired, Specify **No. BB-1041**



No. DB-1042 Disc Bearing Hinge shown. If Ball Bearing Is Desired, Specify **No. BB-1042**

•No. 1139 Jamb Hinges

For doors having long glass panels. Used with No. 1035 hinges.

Vertical part of strap attaches to stile of door adjacent to glass panels. Stock: 1/4" x 2-1/2". Standard lengths, 6", 8", 10", and 12", but can be furnished any length according to requirements. Bolt holes of pintle on 5-1/2" centers; holes in vertical part of strap, 6" center. Reversible. Loose pintle pin, 1/2" diameter, cadmium plated.

Cadmium plated bearings; either disc or ball bearing units. Disc bearings regularly furnished.

Finish, gray enamel, regular. Galvanized available when specified.

Weight Table (Per Pair)

Cat. No.	6" Strap	8" Strap	10" Strap	12" Strap
DB-1139	9 lbs.	11 lbs.	11-3/4 lbs.	12 lbs.
BB-1139	10-1/2 lbs.	11-1/4 lbs.	12 lbs.	13 lbs.

•No. 1140 Surface Hinges

For pairs of doors having long glass panels. Used with No. 1040 hinges.

Stock: 1/4". Each strap, 4-3/4" long by 2-1/2" high. One standard size only. Other sizes special. Bolt holes: horizontally, spaced on 7" centers; vertically, on 6" centers. Reversible. Loose pintle pin, 1/2" diameter, cadmium plated.

Cadmium plated bearings; either disc or ball bearing units. Disc bearings regularly furnished.

Finish, gray enamel, regular. Galvanized available when specified.

Weight, per pair: DB-1140, 8 lbs.; BB-1140, 8-1/4 lbs.

•No. 1041 Reverse Pad Offset Jamb Hinges

For center of doors having large glass panels. Used with No. 434-B hinges.

Pintle attaches to face of jamb and vertical leaf attaches to stile of door. Stock: 3/8" x 2-1/2", 3/8" x 3", 1/2" x 3". Length of strap as required. Bolt holes in strap on 3" centers. Holes in pintle plate take 3/4" bolts, holes in strap take 1/2" bolts. Cadmium plated loose pintle pin, 3/4" diameter for 3/8" stock, 1" for 1/2" stock. Reversible. Cadmium plated bearings; either disc or ball bearing units. Disc bearings regularly furnished.

Finish, gray enamel, regular. Galvanized available when specified.

•No. 1042 Surface Hinges

For center of pairs of heavy glass paneled doors. Used with No. 434-J or 434-K hinges.

Stock: 3/8" x 2-1/2", 1/2" x 3". Length of strap as required. Bolt holes on 3" centers. Reversible. Cadmium plated loose pintle pin, 3/4" diameter for 3/8" stock, 1" for 1/2" stock.

Cadmium plated bearings; either disc or ball bearing units. Disc bearings regularly furnished.

Finish, gray enamel, regular. Galvanized available when specified.

Surface Hinges

●No. 435 Surface Hinges

Four sizes (as listed below). Loose pintle pin.

Stock: 2-1/2" x 4" and 3-1/2" x 5", 12 gauge steel; 4" x 7" and 12" x 4", 10 gauge steel.

Packed, one pair in a box. 2-1/2" x 4" with screws, others with R.H. stove bolts for 2-1/2" door.

Finish, gray enamel.

Weight Table

No. 435—Size 2 1/2" x 4" . . .	1 1/2 Lbs. per Pair
No. 435—Size 3 1/2" x 5" . . .	4 Lbs. per Pair
No. 435—Size 4" x 7" . . .	5 3/4 Lbs. per Pair
No. 435—Size 12" x 4" . . .	8 3/4 Lbs. per Pair



No. 435—2 1/2" x 4", 3 1/2" x 5", 4" x 7"



No. 435—12" x 4"

●No. 636 Offset Surface Hinges

Four sizes (as listed below). Loose pintle pin.

Stock: Three smaller sizes, 12 gauge wrought steel; largest, 10 gauge wrought steel.

Hinge eye offset, 3/4" to allow 1-1/2" between doors when folded.

Packed, one pair in box. Smallest size with screws and others with R.H. stove bolts for 2-1/2" door.

Finish, gray enamel.

Weight Table

No. 636—Size 2 1/2" x 4" . . .	2 Lbs. per Pair
No. 636—Size 3 1/2" x 5" . . .	4 1/4 Lbs. per Pair
No. 636—Size 4" x 7" . . .	6 1/4 Lbs. per Pair
No. 636—Size 12" x 4" . . .	9 1/4 Lbs. per Pair



No. 636—2 1/2" x 4", 3 1/2" x 5", 4" x 7"



No. 636—12" x 4"

●No. 836 Offset Surface Hinges

Four sizes (listed below). Loose pintle pin.

Stock: Three smaller sizes, 12 gauge steel; 12" x 4", 10 gauge steel.

Hinge eye offset, 1-1/2" to allow 3" between doors when folded.

Packed, one pair in box. Smallest size with screws and the larger sizes with R.H. stove bolts for 2-1/2" door.

Finish, gray enamel.

Weight Table

No. 836—Size 2 1/2" x 4" . . .	2 1/4 Lbs. per Pair
No. 836—Size 3 1/2" x 5" . . .	5 Lbs. per Pair
No. 836—Size 4" x 7" . . .	7 Lbs. per Pair
No. 836—Size 12" x 4" . . .	9 1/2 Lbs. per Pair

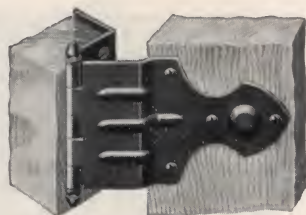


No. 836—2 1/2" x 4", 3 1/2" x 5", 4" x 7"

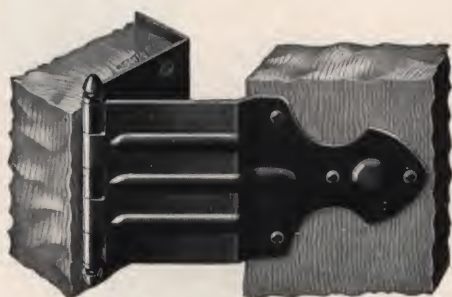


No. 836—12" x 4"

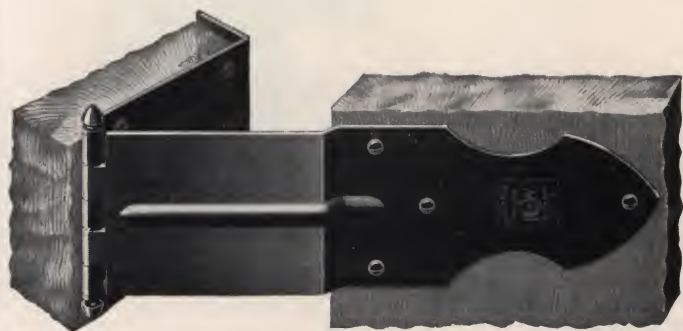
Ornamental Hinges



No. 311—6½"



No. 311—8½"



No. 311—14"



No. 635

No. 311 Half Surface Ornamental Butt Hinges

•Use

For No. 435 x 31 Slidetite garage hardware sets.

•Construction

Height, 4". Loose pintle pin.

Size	Length Long Leaf	Center of Pin to Jamb	Hinge Extends on Door	Offset Allows for
311—6-1/2"	6-1/2"	1-3/4"	4-1/2"	1 Door
311—8-1/2"	8-1/2"	3-3/4"	4-1/2"	2 Doors
311—14"	14"	5-3/4"	8-1/4"	3 Doors

•Packed

One pair in box with screws.

•Finish

Gray enamel.

•Weight (Per Pair)

No. 311, 6-1/2", 2-1/2 lbs.; No. 311, 8-1/2", 3-3/4 lbs.; No. 311, 14", 6-3/4 lbs.

No. 635 Surface Hinges

•Use

Where doors hinged together run around inside corner on curved track.

•Construction

Two sizes: No. 635, 4", leaves 2" and 4" long; No. 635, 5", leaves 3-1/2" and 5-1/2" long; No. 12 gauge wrought steel.

•Packed

One pair in a box. No. 635, 4", with screws; No. 635, 5", with bolts for 2-1/2" door.

•Finish

Gray enamel.

•Weight (Per Pair)

No. 635, 4", 2 lbs.; No. 635, 5", 5 lbs.

Butt Hinges

●No. 135 Butt Hinges

For folding partition doors or wherever superior quality and appearance are essential.

Size of Butts	Thickness of Doors	Weight per Pair	Size of Butts	Thickness of Doors	Weight per Pair
3" x 3"	1 3/8"	1 lb.	4" x 4"	2, 2 1/4"	1 1/2 lbs.
3 1/2" x 3 1/2"	1 3/4"	1 1/4 lbs.	4 1/2" x 4 1/2"	2 1/2"	2 lbs.

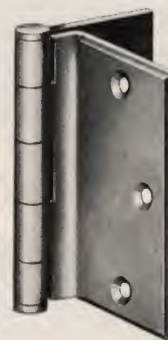
All sizes available in steel, gray enamel, dull brass, or dull bronze plated finish. Also available in solid bronze with dull bronze finish.



No. 135

●No. 502 Half Surface Butt Hinges

Template hinge for No. 647 doors with steel jambs. No. 10 gauge steel. 4-1/2" x 4-1/2" size only. Finish, gray enamel. Packed one pair in a box with screws. Weight, 2-1/2 lbs. per pair.



No. 502



**R-W Features the
Most Complete Line of
Fire Doors and Hardware
Available Today.
See Pages 176-177**

"Holdtite" Handrail Brackets



R-W No. 466



R-W No. 566



R-W No. 766

●Use

Reversible brackets to support wood or metal handrails in masonry or concrete walls.

No. 466 for metal pipe (1-1/4" I.D., 1-5/8" O.D.) railings.

No. 566 for wood railings.

No. 766 for plastered masonry walls.

●Installation

No. 766 has 3/4" boss to extend through plaster and rest on masonry.

All brackets securely held to wall by 1/2" x 4" expansion bolt.

●Construction

Malleable iron.

Projection of rail from wall or plaster line, 3".

Diameter of flange or base, 3".

Reversible, used as either right or left hand brackets.

●Finish

Gray enamel, regular, bronze or brass plated unpolished, available when specified.

●Packed

One dozen (12) in a box.

●Weight (Per Hundred)

Nos. 466 and 566, 119 lbs.

No. 766, 141 lbs.

Concrete Inserts

•No. 106 Concrete Insert

Two sizes with hole tapped for 5/8" or 3/4" diameter bolts. Walls tapered to produce wedging action on concrete. Malleable iron. Height, 3-1/2". Diameter of face, 2-3/8". Finish, gray enamel. Packed in bulk. Weight, each, 1 lb.



No. 106

•No. 133 Concrete Insert

Three sizes for 5/8", 3/4", and 7/8" bolts. Bolt opening is T shaped so nut or bolt head can be inserted in enlarged end. Bolt enters insert 1-3/4" and sidewise adjustment of bolt is 1-3/4". Malleable iron. Height over-all, 2-1/2". Finish, gray enamel. Packed in bulk.

Size	† For 5/8" Bolt	* For 3/4" Bolt	† For 7/8" Bolt
Length Exposed Face.....	3 1/2"	3 3/4"	4 3/8"
Width Exposed Face.....	2"	2 1/4"	2 1/2"
Weight, Each.....	1 1/4	1 3/4	2

*Carried in Stock.

†On Special Order.



No. 133

•No. 134 Concrete Insert

Three sizes for 5/8", 3/4", and 7/8" bolts. Bolt opening is T shaped so nut or bolt head can be inserted. Bolt enters insert 3-3/4" and sidewise adjustment of bolt is 7/8". Malleable iron. Height over-all, 4". Finish, gray enamel. Packed in bulk.

Size	† For 5/8" Bolt	* For 3/4" Bolt	† For 7/8" Bolt
Length Exposed Face.....	2 3/4"	3"	3 3/4"
Width Exposed Face.....	2"	2 1/4"	2 1/2"
Weight, Each.....	1 1/2	1 3/4	3

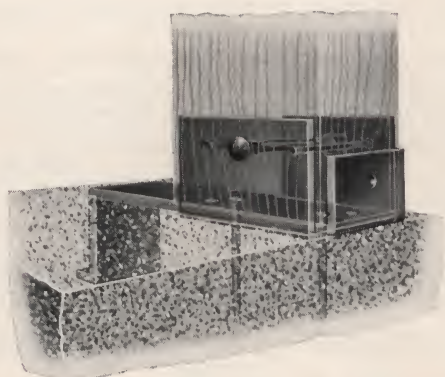
*Carried in Stock.

†On Special Order.

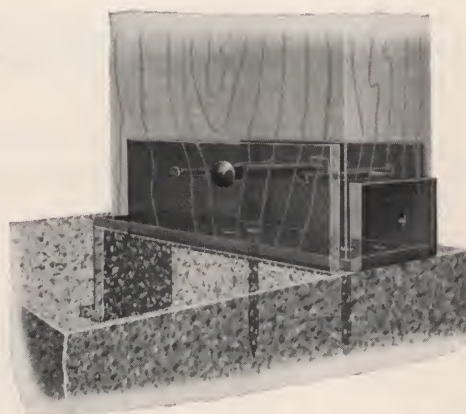


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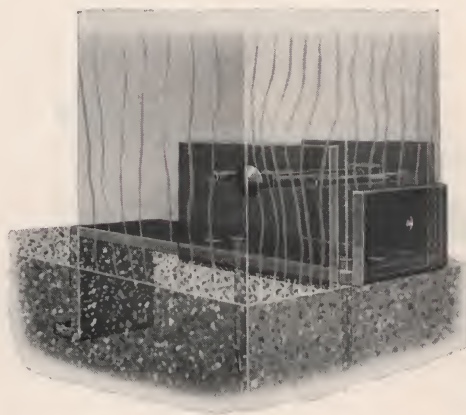
No. 262 Studding Sockets



No. 262-1, for 2" x 4" or 2" x 6" Studding



No. 262-2, for 2" x 6" or 2" x 8" Studding
No. 262-3, for 3" x 6" or 3" x 8" Studding
No. 262-4, for 4" x 6" or 4" x 8" Studding



When Used for Corner Post, Set the Socket 1 3/4" from End. Nail the Second Stud to the First, Notching Out the Second Stud to Insure Tight Fit

•Use

To secure studding without the use of wood sills in construction of farm buildings, garages, etc., which are built on concrete floors or foundations.

•Four Sizes

No. 262-1 for 2" x 4" or 2" x 6" studs.

No. 262-2 for 2" x 6" or 2" x 8" studs.

No. 262-3 for 3" x 6" or 3" x 8" studs.

No. 262-4 for 4" x 6" or 4" x 8" studs.

•Construction

Steel construction.

"U" shaped base riveted to bent anchor plate. Height of heel inside the bend, 1-1/4".

•Installations

Studding socket set in soft concrete and spikes are driven through horizontal leg of socket plate into soft concrete to hold it in alignment.

After the concrete has hardened, the studding is slipped into the socket and is fastened in place by a through bolt and two nails through each vertical side of the "U" shaped section.

Each individual studding is thus permanently tied to the concrete foundation. No split or shrunken sills to weaken the structure. When used for corners, the anchor is set into the concrete 1-3/4" from the end. After one studding has been set, the second or outside studding is notched out at the bottom enough to clear the side of the anchor and then nailed to the first studding, thus forming a double corner post (see illustration).

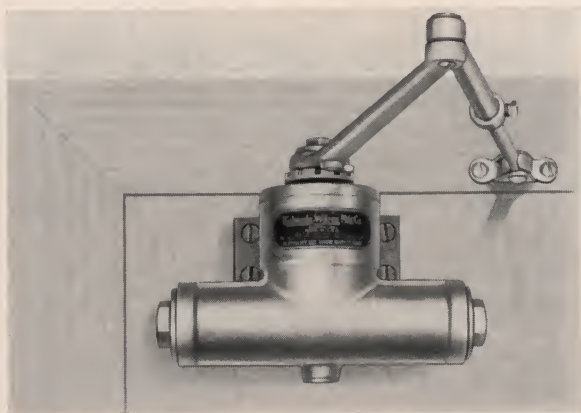
•Finish

Hot galvanized finish.

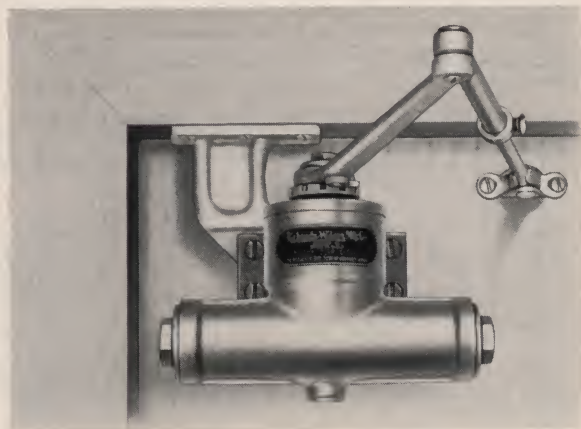
•Weight

Cat. No.	Weight per Hundred
262-1	136 lbs.
262-2	185 lbs.
262-3	200 lbs.
262-4	225 lbs.

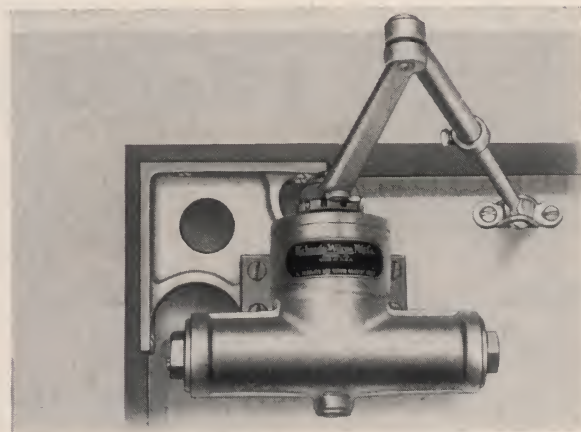
No. 643-N Door Closers



● Standard Attachment



● Attachment by Soffit Bracket



● Attachment by Corner Bracket

● Use

For controlling the closing movement of interior and exterior doors smoothly and quietly.

● Sizes

No. 3N—for medium weight interior doors up to 3' wide or light exterior doors up to 2'6" wide.

No. 4N—for heavy interior or medium weight outside doors up to 3' wide.

No. 5N—for heavy outside doors up to 3'6" wide.

● Attachment

May be attached by any of the special brackets illustrated at left in illustrations No. 2 and No. 3 at an additional cost.

● Packed

One in a box with screws.

● Finish

Gold finish only.

● Weight

No. 643-3N—9 lbs. each.

No. 643-4N—11 lbs. each.

No. 643-5N—14 lbs. each.



**Before Ordering
See Page 2 . . .
Be Sure to State
Which Hand Is Required**

No. 477 Sliding Folding Telephone Booth Door Fixtures

●Use

Sliding folding fixtures for telephone booth doors.

Note—In plan view that the doors are of unequal widths and hardware is supplied regularly to meet this condition.

●Hardware

No. 477 Hanger: Wheel, metal, 1-3/4" diameter; ball bearing wheels and pendant; pendant swivels; vertical adjustment; for doors 1-3/8" to 2-1/4" thick.

Track: No. 30-1/2 type. No. 16 gauge steel.

Brackets: No. 2 x 30-1/2 end brackets.

Bow Handle: 4" handle.

Hinges: Not furnished by R-W.

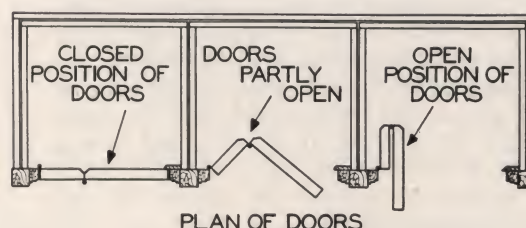
All hardware reversible.

●Directions for Ordering

Specify length of track required.

●Weight

Per set, 10 lbs.



No. 366 Heavy Square Steel Washer

Diameter of Bolt in Inches	Diameter Hole in Inches	Size, Inches	Thickness, Inches	Weight per 100
1/2	9/16	2 1/4 x 2 1/4	3/16	25 lbs.
5/8	11/16	3 x 3	1/4	50 lbs.
3/4	13/16	3 1/2 x 3 1/2	3/8	125 lbs.

Note—Always specify size of bolt. Packed in bulk.



Steel Foot Scrapers

No.	Width	Height	Packed	Finish	Weight per 100
111	5 3/4"	2"	Bulk	Gray Enamel	30 lbs.
110	5 3/4"	2 1/2"	Dozens	Gray Enamel	67 lbs.



No. 110



No. 111

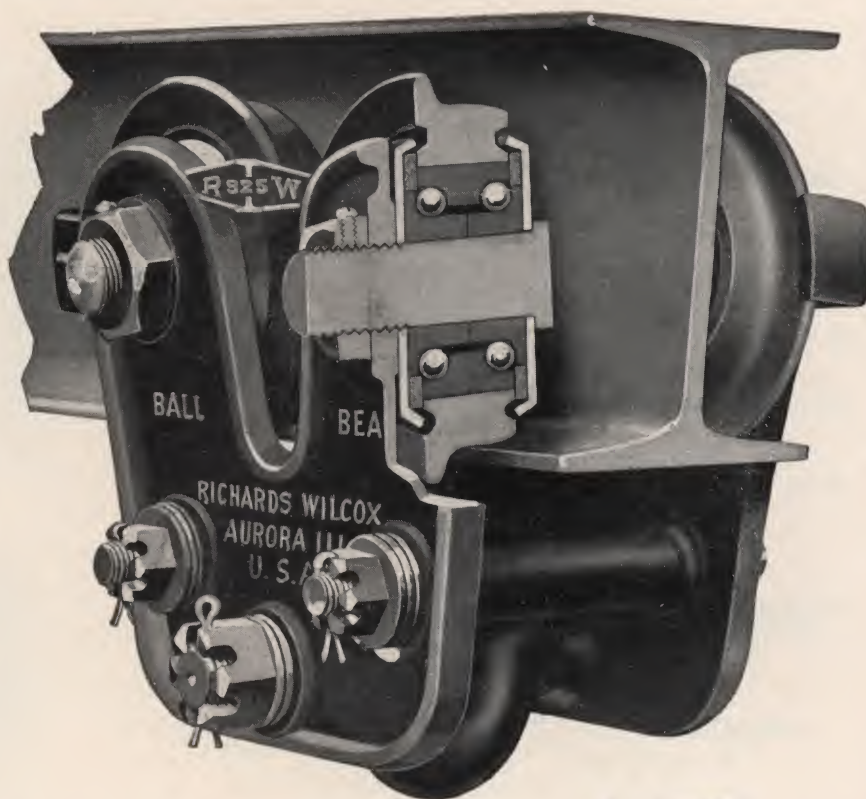
Nos. 925 and 925XHI Ball Bearing Trolleys

These trolleys are built in two styles, the regular and the XHI. The 925 regular is built for normal service and is made as compact as possible; while the XHI, shown at the right, is designed to give greater clearance below the bottom of the track. It is often necessary to have a trolley with greater clearances due to extra heavy bottom joint plates, flipper stops, or other obstructions. A table showing clearances on both types of trolleys will be found on next page. Same price prevails for either trolley.

In the development of the 925 trolley, the R-W Company sought to present to industry the finest trolley ever produced.

High test malleable iron side plates and yokes, wheels of hard gray iron with chilled crowned treads, short operating wheel base, combination radial and thrust bearings and grade "AA" high duty chrome alloy steel balls all have contributed to the reputation for unequalled performance in the 925 trolley.

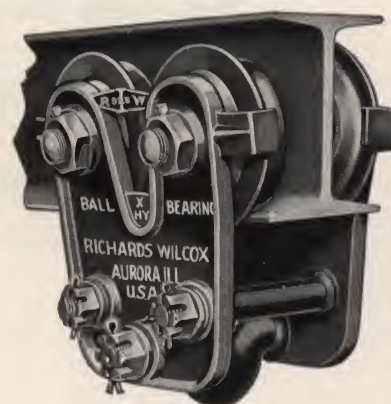
Permanent lubrication is provided by means of felt seal washers which feed oil to the bearings and also exclude dust, dirt, and foreign matter. Even distribution of the load on all four wheels is insured by means of self-equalizing spreader rods.



No. 925XHI

No Other Trolley Has All These Features

1. Short wheel base permits trolley to operate easily on curves.
2. Felt retainers and stamped metal covers exclude dust and dirt. Positive and permanent lubrication is provided as felt absorbs and feeds oil to bearings continually.
3. Combined Radial and Thrust bearings. Hardened and ground ball races. High duty chrome alloy balls.
4. Adjustable to various sizes of track by merely shifting washers from outside to inside of side plates.
5. Bumpers to protect all wheels from shock when trolleys run together or strike end stops.
6. Wheels crowned to minimize friction and are deep chilled, hard and wear resisting.
7. Self-equalizing spreader rods distribute the load evenly on all four wheels.



Extra High Side Plates Provide Additional Space Below Track

R-W No. 925 Trolley Yokes



J



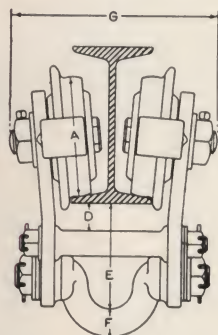
K



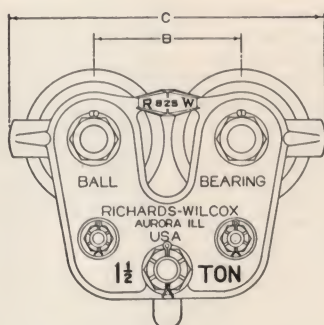
L

Yoke "J" regularly comes with trolleys that fit standard sizes of tracks listed in table. When trolleys are adjusted to large sizes, yoke "K" is furnished. "L" is a special yoke furnished when swivel Pendant Bolt connections to the trolley are wanted.

No. 925 Ball Bearing Trolleys—Cont.



No. 925 Regular Trolleys



No. 925XHI Trolleys

Dimensions and List Prices

No. and Capacity of Trolley, Tons	*Standard Size of Steel Beam, Inches	Width of Wheel-Tread, Inches	A	B	C	Reg. 925 D	XHI D	Reg. 925 E	XHI E	F	†G	Pull Required to Move Load, Lbs.	Reg. 925 Weight, Lbs.
925-1/4	4, 5, 6	5/8	3 1/16	3 13/16	8 3/4	1	1 3/4	3 1/4	4	1 5/16	6 1/4	5	12
925-1/2	5, 6, 7	3/4	3 3/4	4 13/16	10 1/4	1	1 3/4	3 3/2	4 1/4	1 5/16	7 1/2	8	31
925-1	6, 7, 8	15/16	4 5/8	5 3/4	12 1/4	1 1/4	2	4	4 3/4	1 5/16	8	18	50
925-1 1/2	7, 8, 9	1 1/2	5 1/2	6 3/8	14 1/2	1 3/4	2	4 1/2	5 1/4	1 1/4	9 1/2	21	80
925-2	8, 9, 10	1 5/8	6 5/16	7 15/16	16 3/4	1 1/4	2	5	5 3/4	1 1/4	10 1/4	23	110
925-3	9, 10, 12	1 7/8	7 1/8	8 1/8	19	1 3/4	2	5 1/2	6 3/4	1 1/2	11 1/4	34	160
925-4	10, 12, 15	1 3/2	7 11/16	9 1/2	21	1 3/4	2	6	6 3/4	1 1/2	12 1/4	44	200

*Trolleys can be furnished to run on larger size track or Bethlehem I-Beams at a slight additional charge.

†This dimension applies to trolleys running on smallest of the three tracks of each capacity listed in column two. Add 11/32" for each larger size Steel Beam. XHI trolleys weigh about 10% more than weight shown for regular 925. Unless otherwise specified, 925 regular will be furnished.

No. 1030 Plain

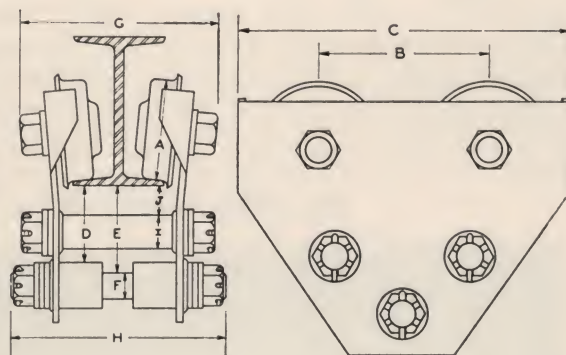
Steel Plate Trolleys

No. 1031 Zerk



Steel plate Trolleys have been developed to meet a demand for an inexpensive intermittent duty trolley where ease of operation is not an important factor. Two types are regularly made, No. 1030 equipped with plain pressed steel ball bearing wheels, and No. 1031 equipped with enclosed dustproof ball bearing assembly and Zerk fittings.

The sides are sheared from rolled steel plates of varying thickness and are press formed and jig drilled. Side plates are slightly tapered and the wheels set at a slight angle on the track to eliminate wobble. A special equalizing arrangement takes up unevenness in the track and keeps the load equally distributed on all wheels.



Dimensions

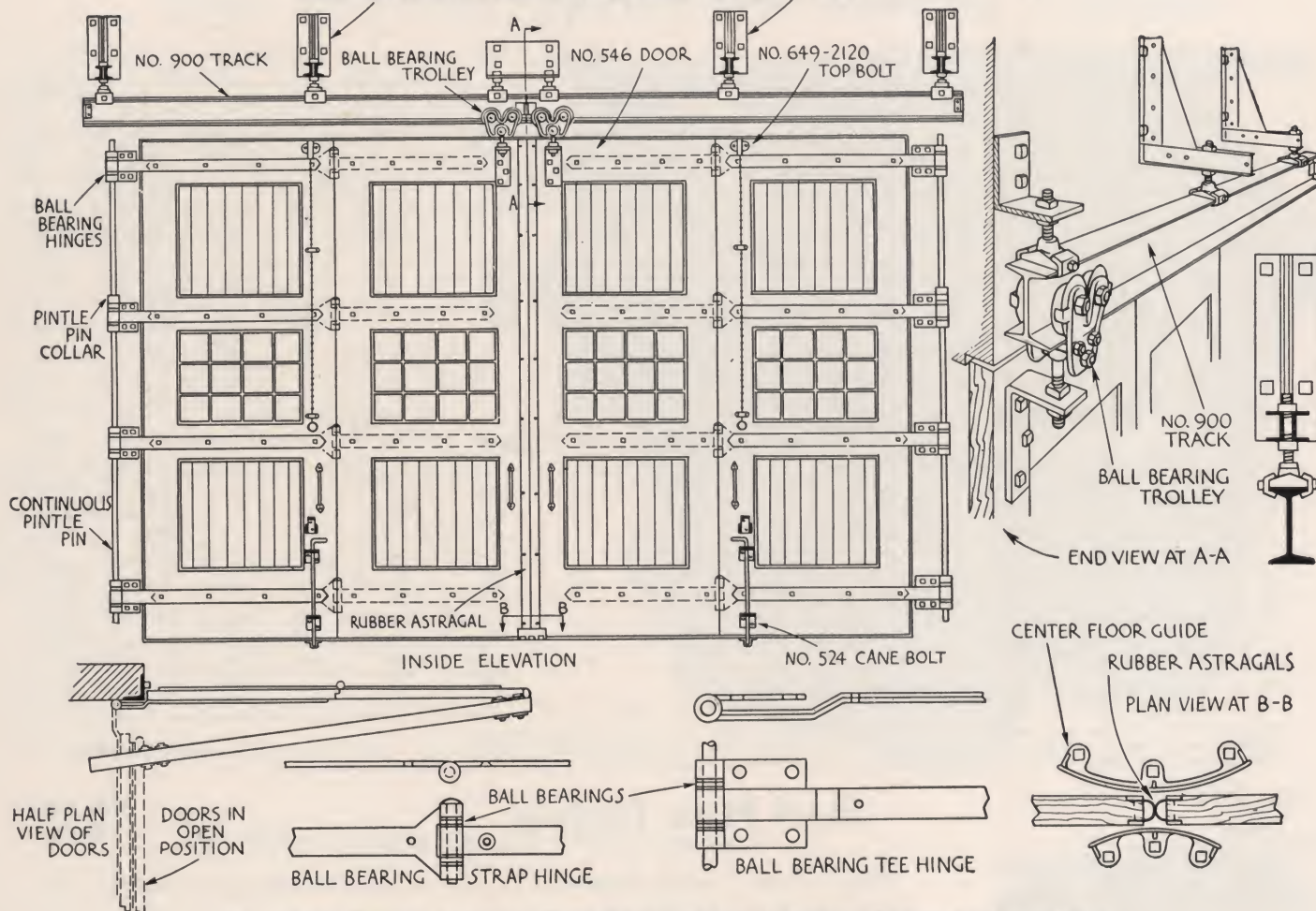
Capacity Tons	*Standard Track Sizes	Net Weight Pounds	A	B	C	D	E	F	G Plain †	G Zerk †	H	I	J
1/4	4, 5, 6, 7	16	3 1/8"	4 5/8"	9 1/4"	2 1/4"	2 1/4"	7/8"	6 3/8"	7 3/8"	6 1/8"	3/4"	5/8"
1/2	5, 6, 7, 8	18	3 1/8"	4 5/8"	9 3/8"	2 1/8"	2 1/8"	1 "	6 1/4"	7 1/4"	6 3/8"	3/4"	5/8"
1	6, 7, 8, 9	25	4 "	6 "	12 1/4"	2 3/8"	2 13/16"	1 "	7 3/8"	8 1/2"	7 1/4"	7/8"	1 1/8"
2	7, 8, 9, 10, 12	48	4 7/8"	7 1/4"	15 "	2 7/8"	2 13/16"	1 1/4"	8 1/4"	9 1/4"	8 1/4"	3/4"	1 1/8"

*When ordering be sure to specify which type is desired.

†This dimension applies to trolleys running on smallest size track of each capacity listed in column two. Add 11/32" for each larger size track.

No. 1434 Heavy 4-Door Hardware

THESE BRACKETS USED ONLY ON OPENINGS OVER 20 FT. WIDE



No. 1434 Heavy 4-Door Hardware Using I-Beam Track and Trolleys

The principle of operation of this hardware is similar to the No. 434 illustrated on pages 166-167, but the hardware is much heavier throughout and R-W Steelbeam Track and Ball Bearing Trolleys (similar to those shown on next page) replace the trolley track and hangers used with No. 434. The table on page 167 will give you an idea as to the size of openings this hardware will handle.

Big door installations are always special and demand special engineering. It is very important to use the proper equipment to successfully handle such openings and our Engineering Department stands ready at all times to work up preliminary layouts, details and estimates on any door-way problem you may have.

No. 2235 Hardware for Exceptionally Wide 4-Door Openings

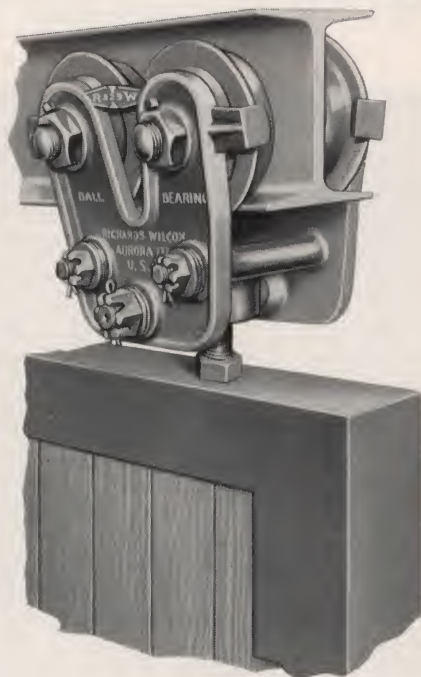


Where 4-door openings are more than 22 feet wide, No. 2235 hardware should be used. As you will note from illustration at right, the regular No. 1434 hardware is supplemented by two curved sections of Steelbeam track with trolleys, which give ample additional support needed to carry such wide doors.



The table on page 167 gives information regarding this 2235 hardware, although we recommend that our Engineering Department be consulted as to the proper hardware to use on all exceptionally large openings. Our experienced engineers will study your individual requirements and make recommendations and sketches for your consideration.

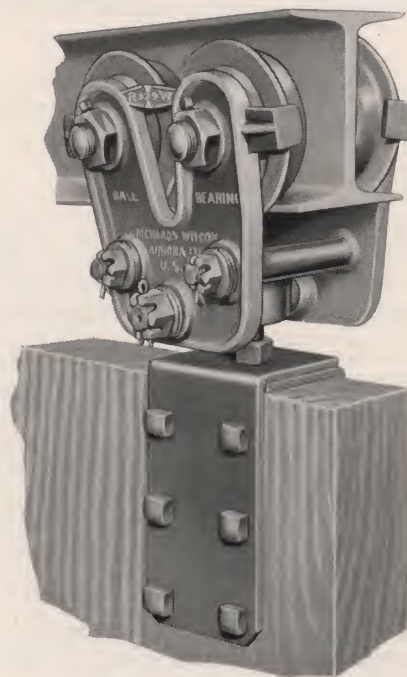
I-Beam Trolleys for Doors



No. 928

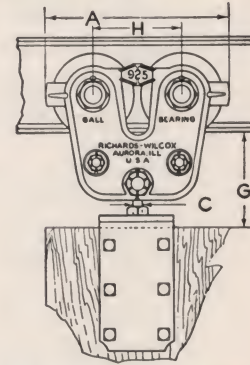
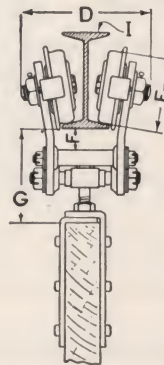
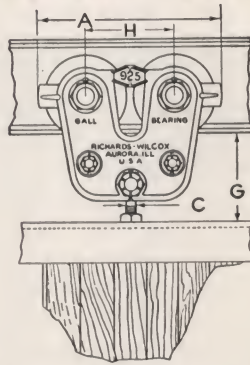
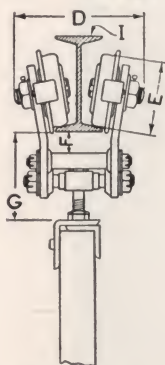
Hanger with Plate Attachment for Doors

See Application
of These Hangers
to No. 1434
Big Door
Hardware
on Opposite Page



No. 929

Hanger with Apron Attachment for Doors



These hangers are for use on very heavy doors and for doors where the service conditions are very severe. Being ball-bearing they operate smoothly and easily. Plates and aprons are made to special order to

fit the particular doors on which they are to be used. In ordering always give thickness and size of door.

Weight and Dimension Table

Hanger No.	Maximum Weight of Door, Lbs.	*Size of Track On Which Standard Hanger Will Run, Ins.	†Min. Distance from Center of Track to Wall, Ins.	A Ins.	B Ins.	C Ins.	‡D Ins.	E Ins.	F Ins.	Min. G Ins.		H Ins.	Weight, Lbs. Per Pair		§Full Required to Start Full Load Lbs.
										928	929		No. 928	No. 929	
928-¼ or 929-¼	1,000	4, 5, 6	4	8¼	1½	¾	6¼	2½	¾	5½	4½	3½	51	62	20
928-½ or 929-½	2,000	5, 6, 7	4½	10¼	1½	¾	7½	3¾	1	6¾	5¼	4½	86	99	34
928-1 or 929-1	4,000	6, 7, 8	5	12¼	1¾	1	8	4¾	1¼	8½	6¼	5¾	145	155	74
928-1½ or 929-1½	6,000	7, 8, 9	5½	14¼	1¾	1½	9½	5½	1¼	8¾	6¾	6¾	194	213	90
928-2 or 929-2	8,000	8, 9, 10	6	16¼	2	1¼	10¼	6½	1¼	9½	7¼	7½	274	282	100
928-3 or 929-3	12,000	9, 10, 12	6½	19	2½	1¾	11¼	7½	1¼	10¼	8	9½	400	407	150
928-4 or 929-4	16,000	10, 12, 15	7	21	2¾	1¾	12¼	7½	1¼	11	9	10	501	523	190

Note—*Hangers can be fitted to larger sizes of track at an additional price. Sometimes larger sizes of track are required on account of the distance between supporting points. Recommendations as to proper size of track should be secured from our engineering department. In making such requests give information as to where supports can be located and state weight of door.

†This dimension applies to the smallest size of track for each hanger as listed in column 3.

‡For larger sizes of track add one-half the difference in width of tracks.

§Easier running can be obtained by using larger size hangers.

Tracks are priced on application.

Track Supports are extra and price depends upon requirements.

No. 434 Roundhouse, Shop and Large Warehouse Door Hardware

•Use

For large wood or steel doors demanding heavy durable hardware.

•Hardware

Sets consist of tracks, brackets, hangers, hinges, lock bolts and hold open latches. When wicket doors are used, hinges and latch are furnished.

Track: Size as required by weight of doors.

Maximum Permissible Weight of Set of 4 Doors	Size Track to Be Used
Up to 1600 lbs.....	175
Over 1600 up to 2000 lbs.....	375
Over 2000 up to 2400 lbs.....	233
Over 2400 up to 4000 lbs.....	533

When service is severe and doors are subjected to rough usage or extreme weather conditions, next larger size track is recommended.

Brackets: Similar in appearance to No. 1035 brackets (pages 26-27) but of heavier material and in larger sizes to fit track used.

Hangers: Nos. 2434-5, 6, 7, and 8 (page 12).

Hinges: Jamb hinges usually No. 434B, C, or D (pages 147-148), depending upon jamb conditions.

Two doors of each pair usually connected by double strap hinges No. 434J or K (page 149).

Hinge leaves made substantially as long as door is wide and bolt holes in one leave of double strap hinges are made to correspond with holes in jamb hinge.

For number of hinges required for various size openings, see opposite page.

Door Bolts: No. 524 Cane Bolts (page 120) are used at bottom of door at the hinged joint where two doors are hinged together. No. 434C, R, or T spring bolts (page 121) are used at the same position at the top of the door.

No. 1017 Cremona Bolt (page 125) used for extra-heavy doors.

Weatherstrip: No. 216-1 Rubber Weatherstrip (page 143) used in vertical edges of doors of center of doorway; No. 216-2 (page 143) along the bottom of doors.

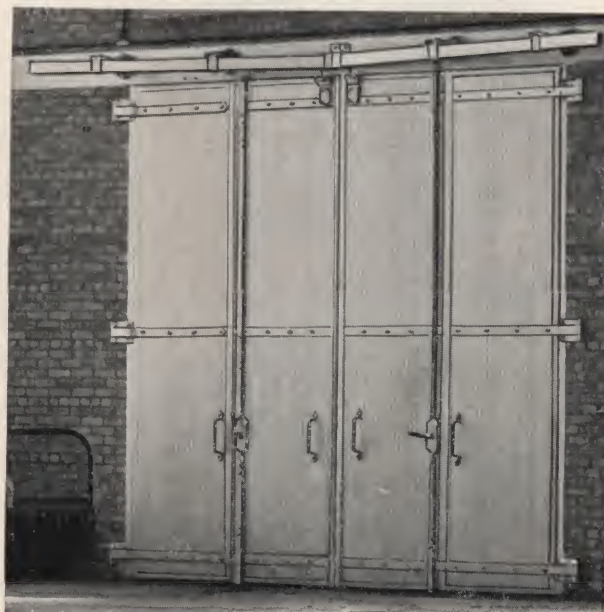
•Directions for Ordering

State width and height of opening, thickness of doors, if doors are wood or metal.

Describe construction of doorway jambs.

Send detail drawings if possible.

All doors in an opening must be of equal width.



•Weight

No. 434 Hardware:	Wt. per Set
with 3 sets of hinges.....	725 lbs.
with 4 sets of hinges.....	850 lbs.
with 5 sets of hinges.....	1000 lbs.
with 6 sets of hinges.....	1175 lbs.

Wicket door hardware only 20 lbs.

No. 434 Roundhouse, Shop, and Large Warehouse Door Hardware



Hinges Required for Height of Opening

Doors up to 12' high require 3 hinges;
Doors 12'1" to 16' high require 4 hinges;
Doors 16'1" to 22' high require 5 hinges.

For maximum widths of openings and weights of doors, see table below for proper size of hinge to use.

If the width of opening or weight of doors exceeds the maximum given in table below for the number of hinges suggested in above table, increase the number of hinges.

Maximum weights of a set of 4 doors per opening which can be safely carried by hinges listed, using No. 434, No. 1434, and No. 2235 hardware (see page 164).

Number and Size of Hinges at Each Jamb	WIDTH OF OPENINGS									
	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
3 Hinges $\frac{3}{8}$ " x $2\frac{1}{2}$ "	1313	1166	1045	947	867	799	.....	.....	.....	.....
4 Hinges $\frac{3}{8}$ " x $2\frac{1}{2}$ "	1751	1555	1393	1263	1156	1065	.....	.....	.....	.....
5 Hinges $\frac{3}{8}$ " x $2\frac{1}{2}$ "	2189	1944	1741	1579	1445	1331	.....	.....	.....	.....
3 Hinges $\frac{3}{8}$ " x 3"	1900	1678	1505	1365	1250	1152	.....	.....	.....	.....
4 Hinges $\frac{3}{8}$ " x 3"	2533	2237	2007	1820	1667	1536	.....	.....	.....	.....
5 Hinges $\frac{3}{8}$ " x 3"	3166	2796	2496	2275	2084	1920	.....	.....	.....	.....
3 Hinges $\frac{1}{2}$ " x 3"	2715	2406	2160	1959	1793	1653	1533	1430	.....	.....
4 Hinges $\frac{1}{2}$ " x 3"	3620	3208	2880	2612	2391	2204	2044	1907	.....	.....
5 Hinges $\frac{1}{2}$ " x 3"	*4525	4010	3600	3265	2989	2755	2555	2384	.....	.....
6 Hinges $\frac{1}{2}$ " x 3"	*5430	*4812	*4320	3918	3587	3306	3066	2861	.....	.....
3 Hinges $\frac{1}{2}$ " x 4"	*4827	*4277	3840	3484	3188	2938	2725	2541	2379	2238
4 Hinges $\frac{1}{2}$ " x 4"	*6436	*5703	*5120	*4645	*4251	3917	3633	3388	3172	2984
5 Hinges $\frac{1}{2}$ " x 4"	*8045	*7129	*6400	*5806	*5314	*4896	*4541	*4235	3965	3730
6 Hinges $\frac{1}{2}$ " x 4"	*9654	*8555	*7680	*6967	*6377	*5875	*5449	*5080	*4758	*4476

*Use No. 1434 or No. 2235 Hardware on doors of weight indicated thus. If doorways are over 22' wide, we recommend No. 1235 or No. 2235 Hardware.

CRANEWAY HARDWARE



Craneway doors in closed position.



Craneway doors in open position.

PASSAGE FOR CRANES

This is the modern way of crane passage. These doors soon pay for themselves . . . minimize cold drafts in winter, providing a savings in heating costs . . . help to maintain even comfortable temperature in winter and summer . . . eliminate loss of conditioned air, reduce maintenance and operating costs on air conditioned equipment.

OPERATION

Craneway doors are electrically operated. Styles of Industrial doors are shown in Catalog No. 410 and are ideal for craneway use . . . each installation is completely engineered to meet existing conditions. Doors can be electrically interlocked to work in connection with crane.

Data Required for Ordering

- ARCHITECTURAL DETAILS OF BUILDING OF CRANEWAY DOOR AREA.
- SPECIFY WHETHER DOORS ARE TO SWING IN OR OUT.
- STATE EXISTING WIND CONDITIONS IN POUNDS PER SQUARE FOOT THE DOOR IS TO WITHSTAND TO OPERATE PROPERLY IN YOUR AREA.

FIRE STATION HARDWARE

For Sliding Doors

*(For Sliding-Folding Doors See Pages 166-167)

● Use

For sliding fire station doors for doorways large enough to admit two or three pieces of fire fighting equipment.

● Operation

Doors are electrically operated by R-W electric operators controlled by push button stations located in control room or other convenient locations.

Doors may be closed automatically by time switch control following a predetermined lapse of time after the doors are opened.

● Hardware for Sliding Doors

Sets include Rich-Wil ball bearing hangers (either No. 828 two speed hangers for four door openings or No. 829 three speed hangers for six door openings), rubber weatherstrips or astragals, floor guides and track, and R-W electric operators.

* ● Hardware for Slide-Fold Doors

The hardware is No. 434 heavy-duty Slidetite (pages 166-167) which consists of tracks, hangers, hinges, trim hardware, rubber weatherstrips, and R-W electric operators.

● Doors

Any door shown in the Industrial Door Catalog No. 410 is ideal for this style operation.

● Directions for Ordering for Both Styles

State width and height of opening, thickness of doors and if doors are wood or metal.

Describe construction of doorway jambs.

Send detail drawings, if possible.

All doors in opening must be of equal width.



● Sliding Doors

One Half of Six Door Opening Showing Doors Partially Opened



* ● Sliding-Folding

(Hardware for this style operation found on pages 166-167.)

Heavy Duty Parallel Door Equipment

For Doors Weighing Not More than 800 lbs.

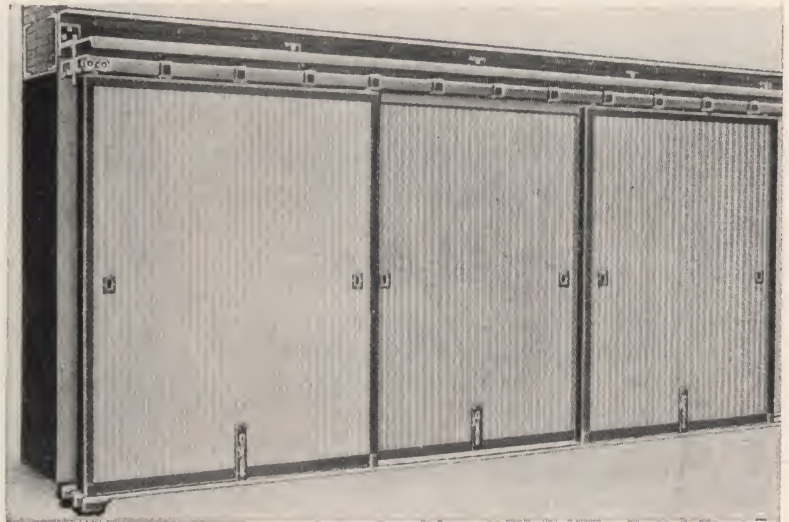
Nos. 251, 253, and 258 Trolley Track Type

R-W parallel door equipment permits an opening at any place desired.

Tracks as shown at left are assembled complete in sections to accommodate different size openings. They are suitable for attaching to any construction. No. 251 Type Drop Bracket for overhead attachment; No. 253 Type Plain Bracket for overhead attachment; No. 258 Type for sidewall attachment.

Weatherstrip extends below top of door making equipment stormproof.

Details furnished on request.



No. 251 Type Track with R-W No. 448 Super-Way Doors (See Page 174). (We Do Not Furnish Channels or Beams to Which Tracks Are Shown Attached.)

WEIGHT TABLE

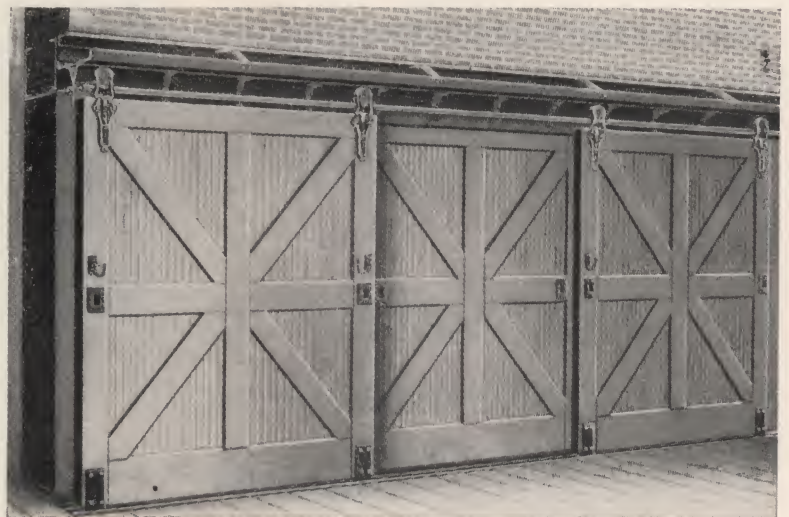
No. 251 Parallel Track, No. 33 Size with Weatherstrip.....	20 Lbs. per Ft.
No. 253 Parallel Track, No. 33 Size with Weatherstrip.....	18 Lbs. per Ft.
No. 258 Parallel Track, No. 33 Size with Weatherstrip.....	20 Lbs. per Ft.
No. 150-1/2 B-1 or 2 Hanger.....	21 Lbs. per Pair

No. 255 Round Track Type

Round track parallel door equipment operates in the same manner as trolley track above. It is assembled complete in sections to accommodate different size openings and is suitable for attaching to any construction.

Weatherstrip extends below top of door making it stormproof.

Details furnished on request.



No. 255 Type Track Used with Parallel Doors. (We Do Not Furnish Channels to Which Tracks Are Attached.)

WEIGHT TABLE

No. 255 Parallel Track, No. 542-C Size with Weatherstrip.....	12 Lbs. per Ft.
No. 642-5 Hanger.....	33 Lbs. per Pair

No. 703 Vertical Lift Door Hardware

●Use

For light or medium size straight vertical lift doors from 1-3/4" to 2-1/2" thick, weighing up to 900 lbs. each.

●Operation

Doors are counterbalanced by weights operating in weight boxes.

When doors weigh less than 600 lbs., a single set of weights and one weight box is used which may be installed on either side of door. When doors weigh between 600 and 900 lbs., the weights must be divided with one set on each side of door.

●Made in Two Sizes

No. 703-1, for doors 1-3/4" thick, weighing up to 350 lbs. Track is made of No. 13 gauge steel for guide rollers, 1-3/4" diameter.

No. 703-2, for doors 1-3/4" to 2-1/2" thick, weighing between 350 and 900 lbs. Track is made of No. 11 gauge steel for guide rollers, 2-3/4" in diameter.

Tracks are attached to continuous steel angles. All rollers are made of steel with seamless steel treads and ball bearings.

Figure length of each track as twice the height of the opening for estimating purposes.

●Weight

No. 703-1 fixtures only less track, counterweights and weight boxes, 65 lbs. No. 703-1 tracks, 3-1/2 lbs. per foot.

No. 703-2 fixtures only less track, counterweights and weight boxes, 75 lbs. No. 703-2 tracks, 5-3/4 lbs. per foot.

Weight boxes 1-1/2 lbs. per foot. Figure length of the weight box 1-1/2 times height of opening for estimating purposes.

Counterweights are required equal to the weight of the door.

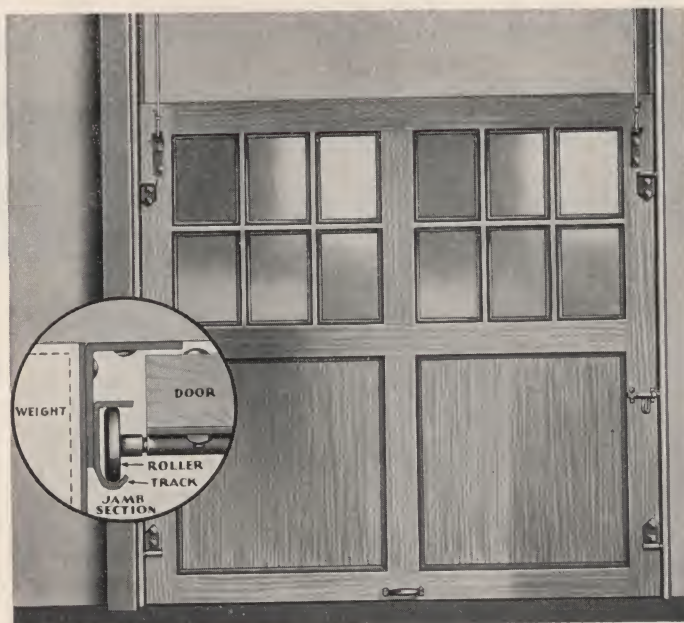


Illustration Shows Application of a Set of No. 703-1 Hardware.

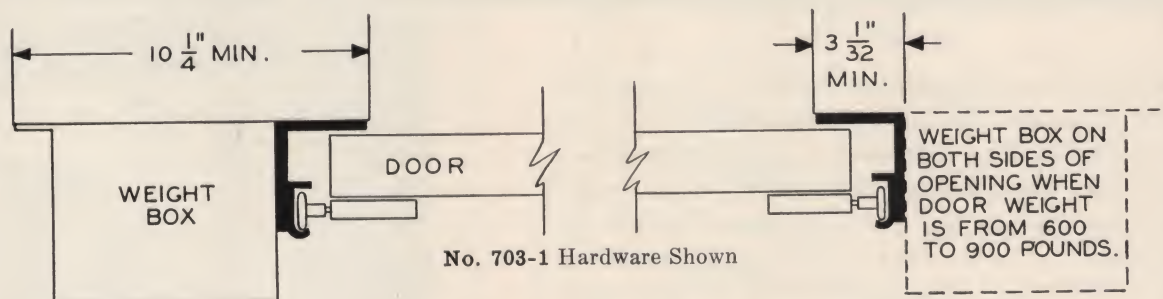
●Data Required with Order

Thickness of doors must be specified because tracks are assembled to suit door thickness.

Height of opening for length of track and weight boxes.

Weight of doors for correct amount counterweights.

Specify amount of side and headroom available.



Two and Three Section Doors

Also available are 2 and 3 section doors . . . this hardware is specifically designed to each installation . . . send data concerning each opening.

R-W *Electric*

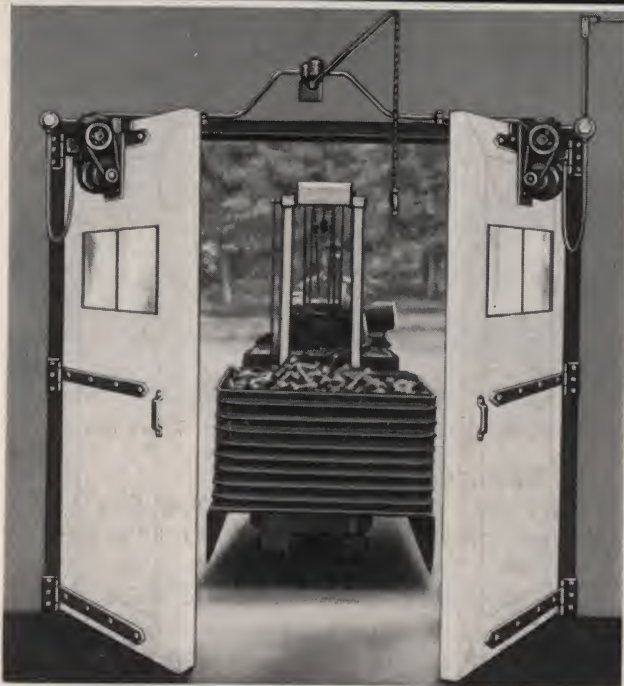
OPERATORS



Richards-Wilcox offers a complete line of time-tested, Electric Door Operators designed to increase plant efficiency, employee comfort and safety. Smooth, automatic door operation assures fast, easy movement and hauling between departments . . . saves time involved in manual operation . . . keeps doors tightly closed . . . saves heat in winter and conditioned air in the summer.

R-W Electric "AUT-O-DOR" Operators are specifically designed to give years of dependable service under the rugged demands of industry . . . many have been in service for over 25 years and still function perfectly.

SAVE TIME · MONEY · MANPOWER!



IMPROVE MATERIALS HANDLING AND SPEED-UP PRODUCTION TRAFFIC

R-W Electric "AUT-O-DOR" Operators will help to speed-up plant traffic, smooth traffic flow and eliminate confusion. Swinging, sliding, folding and vertical lift doors can easily be adapted to open and shut automatically, safely and smoothly. Motorized-truck and hand-truck drivers can open and shut doors without the loss of time involved in stopping and starting to open doors and stopping again to close them. R-W Electric "AUT-O-DOR" Operators will save you time, effort and money.

REDUCE DOOR MAINTENANCE!

The installation of automatic door openers will enable you to greatly reduce the time and cost involved in door and equipment maintenance. R-W Electric "AUT-O-DOR" Operators will open plant doors automatically as the traffic approaches, preventing carts and trucks from bumping and springing doors . . . it will hold these doors securely open while the traffic passes thru and then close the door automatically, safely and smoothly. Eliminates door slamming and rough handling by assuring proper door operation.



MODERNIZE PLANT DOOR OPERATION

will...

- SPEED-UP PRODUCTION TRAFFIC!
- IMPROVE MATERIALS HANDLING!
- IMPROVE EMPLOYEE SAFETY and COMFORT!
- SAVE HEAT—PREVENT DRAFTS!
- ELIMINATE CONDITIONED AIR LOSS!
- REDUCE DOOR MAINTENANCE!

IMPROVE EMPLOYEE SAFETY and COMFORT!



SAVE HEAT—PREVENT DRAFTS— ELIMINATE CONDITIONED AIR LOSS

The installation of automatic door operators will completely eliminate the "left-open" door problem. R-W Electric "AUT-O-DOR" Operators will . . . minimize cold drafts in the winter, providing a savings in heating costs . . . help to maintain even comfortable temperatures in winter and summer . . . eliminate loss of conditioned air, reduce maintenance and operating costs on air conditioning equipment. These factors all add up to greater employee comfort for added efficiency and production. Richards-Wilcox exclusive opening and closing action assures fast, easy operation and weather-type closing.

SEND FOR CATALOG No. 200

R-W *Electric* OPERATORS

for...

- QUICK, EASY INSTALLATION
- PERFORMANCE & SERVICE
- SIMPLIFIED MAINTENANCE
- OVER-ALL ECONOMY

AVAILABLE IN
THE FOLLOWING:

- SINGLE SLIDE DOORS
- BI-PARTING SLIDING
- SINGLE SWINGING
- DOUBLE SWINGING
- VERTICAL - LIFT
- SLIDING - FOLDING
- CRANEWAY
- ELECTRIC OPERATORS FOR GATES

REDUCE MAINTENANCE COSTS



TRADE MARK

Richards-Wilcox Industrial Doors

SEND FOR CATALOG No. 410

Make All Door Installations 100% R-W Equipment

Richards-Wilcox offers one dependable source for all the equipment necessary to fill an industrial door opening. R-W Industrial Doors and heavy-duty hardware, track, hangers and electric operators . . . are all manufactured with precision and care at R-W to meet the requirements of today's industry . . . and most important, to fulfill these requirements for years to come . . . "Each unit is made for each other" . . . designed to provide quick, economical installation and the ultimate in quality and service.



No. 448 "SUPER-WAY" STEEL FRAME DOORS ®

This rugged door is for all types of openings ranging in size from the smaller commercial to the larger industrial and airplane hangar openings . . . interlocking tongue and grooved wood strips team up to form one of the finest industrial doors ever built.

No. 467 STEEL DOORS

For large doorways, in warehouses, industrial buildings, hangars, etc. . . made of a heavy frame work welded together for rigidity. Corrugated galvanized 24 gauge sheet steel attached to the frame form the rest of the door. Standard door thickness is 3" or 4", thicker doors available when necessary.

No. 453 STEEL COVERED DOORS

A very neat smooth surface all purpose door, neat in appearance for use between departments and can be used with standard fire door hardware or R-W Industrial Door Hardware. The No. 453 was designed to take hard usage and to meet every industrial and commercial requirement.

No. 2347 SHEET METAL DOOR

The door is highly recommended where doors are subject to rough usage and where conditions might induce dry rot in another type door. The design of the outer frame on top and bottom consists of a heavy rolled steel angle. The bottom horizontal member is a heavy tee bar having the corrugated sheets fitted to the stem of this tee bar, this eliminates pockets that would otherwise collect dirt and water.

No. 546 STA-RITE WOOD DOOR

The No. 546 "Sta-Rite" door is an all-purpose door for both commercial and industrial openings. The construction is built up of clear grade narrow tongue and grooved strips of wood nailed together. This type of laminated door panel is designed to overcome excessive shrinking and swelling. Every door is treated with a high quality wood preservative to help exclude excessive moisture.

No. 800 SERIES STEEL PLATE

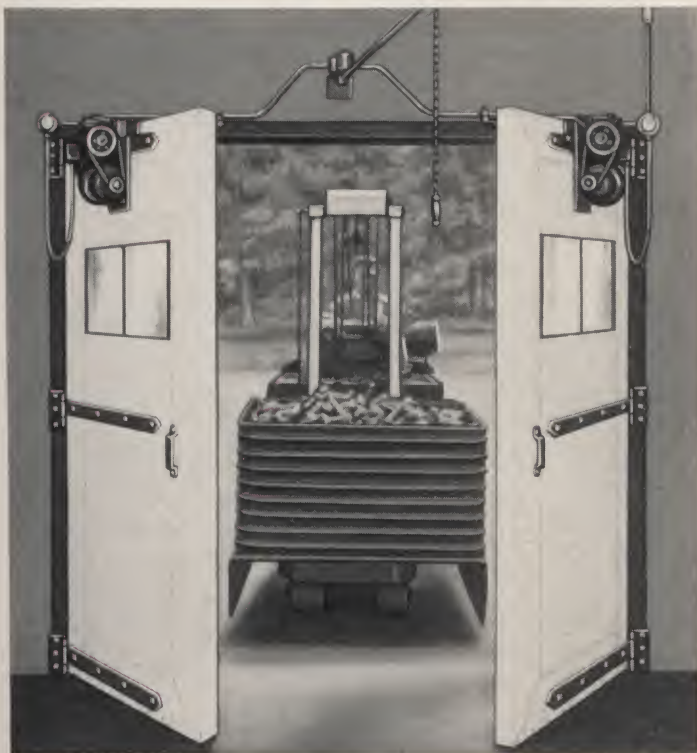
Richards-Wilcox features a wide range of standard sizes and designs while providing the finest in door engineering. Various styles of construction are offered: No. 872, plate one side (tubing); No. 873, plate both sides; No. 874, center panel; No. 875, plate one side . . . angles or channels; No. 876, plates both sides, angles or channels.

Whether It Swings Slides, or Folds— R-W Has an Industrial Door to Do the Job

Richards-Wilcox offers a complete line of TOP-QUALITY, HEAVY DUTY Electric Door Operators designed and engineered to meet your exact requirements. Like magic, R-W Operators will open and close Swinging . . . Sliding . . . Folding . . . Vertical Lift Doors and Gates. Richards-Wilcox also features a complete line of standard control systems and equipment which can be adapted to give you custom door control. R-W Electric Operators have attained universal acceptance and have established a prestige over 45 years that challenges comparison. The facilities of our trained sales engineers and engineering experience are at your command. Please contact our nearest representative or home office for additional information.

SEND FOR CATALOG No. 200

SWING DOOR OPERATION



R-W Electric "Aut-O-Dor" Operators and R-W Industrial Doors team up to speed up plant traffic. Motorized truck and hand truck drivers can open and shut doors without the loss of time involved in stopping and starting to open doors and stopping again to close them. R-W Electric "Aut-O-Dor" Operators will save you time, effort and money.

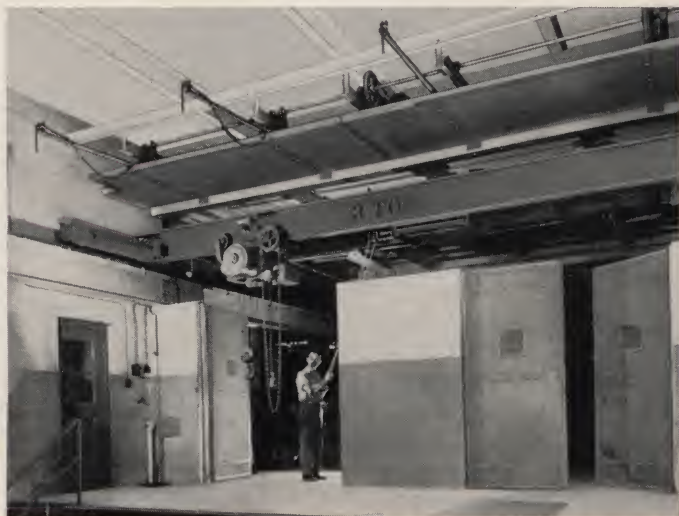
Send for Catalog No. 410



SLIDING - FOLDING DOOR OPERATION



Use
RICHARDS-WILCOX
INDUSTRIAL and FIRE DOORS —
DOOR HARDWARE —
ELECTRIC OPERATORS
"Made for each other"



This type door helps minimize cold drafts in winter, providing a savings in heating costs . . . helps to maintain even comfortable temperature in winter and summer.





TRADE MARK

PIONEERS IN FIRE DOOR FIELD

The two-page fire door spread shown here illustrates some of the various styles of doors and hardware made by Richards-Wilcox.

R-W features three of the finest doors on the market today . . . along with this, there are many styles of fire door hardware sets, which are all shown in an 80 page two-color fire door catalog. There are various other items such as "Motorized Fire Doors" showing you how to use your fire doors as production doors . . . This is done by using R-W Fire Doors and R-W "Aut-O-Dor" electric operators. It is important with today's high cost of production, to save money wherever possible . . . The photo on this page illustrates how it is possible to open and close fire doors without getting off trucks, "Saving Precious Time."

This 80 page booklet has also in it many styles of operation; level track, inclined track and drop bracket for low headroom, single and double door operation. All of these sets are adaptable to any of the three R-W fire doors.

ADVANCED FEATURE

The newest in fire protection is the R-W "Advanced Fire Detector Unit."

Small units placed on the ceiling many feet away from the door . . . If an outbreak of fire should occur, the sudden temperature rise would close these doors . . . far in advance of the fire, shutting off a fresh supply of oxygen.

Fire Doors and Richards-Wilcox

"THE GREATEST NAME IN FIRE DOORS
AND HARDWARE"

R-W HAS 3 FINE (APPROVED) DOORS.

- No. 647 "FyeR-Ward" Doors.
- No. 446 Tin Clad Doors.
- No. 347 "FyeR-Wall" Doors.

No. 647 "FyeR-Ward" is one of the best appearing fire doors ever made . . . smooth but rugged in use and is only 1-13/16" thick . . . the 647 door is ideal where appearance is of some importance. It is the best appearing of all fire doors because it lends itself to any surrounding . . . a door of this type enhances rather than detracts from the general appearance of an installation.

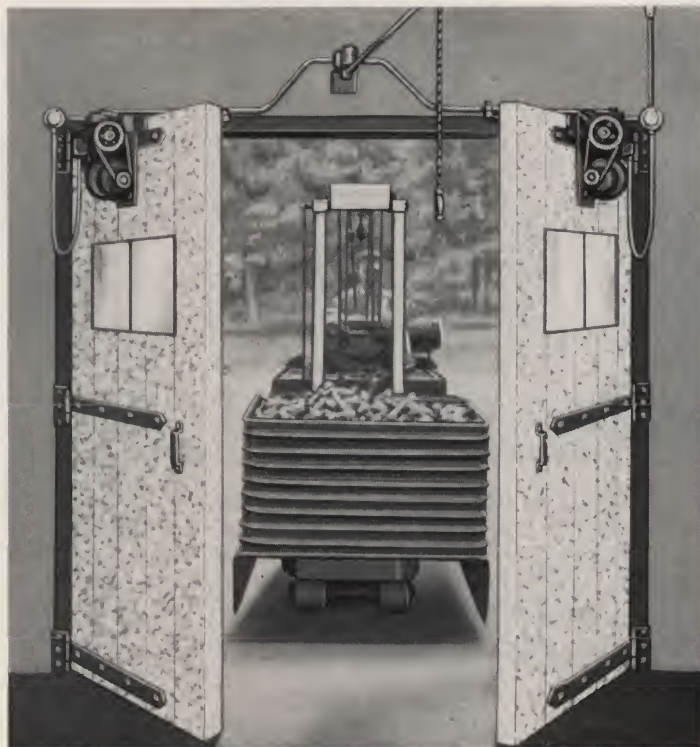
No. 446 is a wood core door which consists of layers of tongued and grooved lumber covered by sheets of terne plate.

This is an ideal door for locations requiring installation with ordinary carpenter's tools.

No. 347 "FyeR-Wall" corrugated sheet metal fire doors are recommended where the door will be subject to rough usage, and where the door would be subject to conditions which might induce dry rot in a tin clad door.

These doors are somewhat more difficult to install than a tin clad door because of the necessity of drilling holes in and making attachments to metal, but may be purchased from the factory with all holes drilled eliminating that difficulty.

Time Is Precious



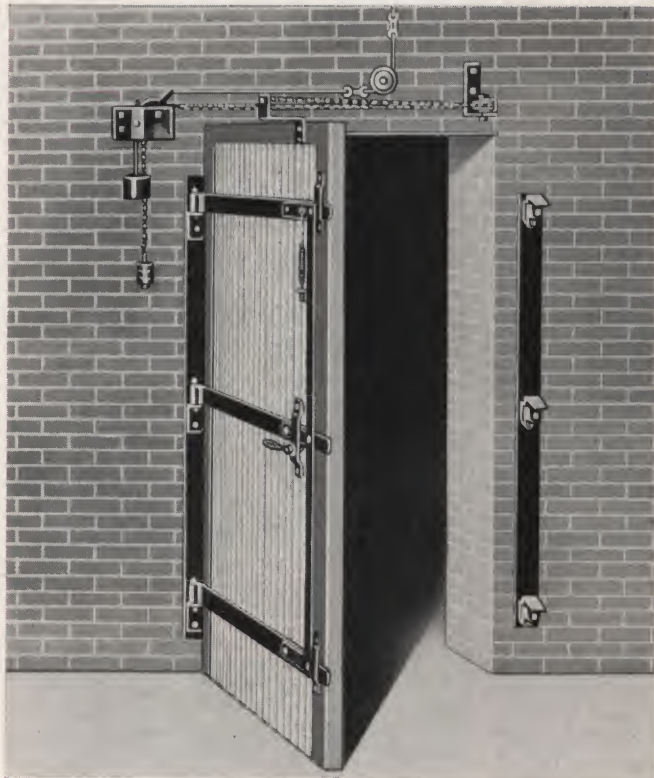
Fire Door Hardware



• SINGLE SLIDING



• BI-PARTING



• SINGLE SWINGING



• DOUBLE SWINGING



Fusible Links by R-W

R-W has for many years been the producer of a large share of the fusible link market, offering one of the largest selections available today.

To the right is the No. 97 link which is approved by the Underwriters' Laboratories, Inc. and is available in 160° - 212° - 286° and 360°. Other styles and combinations can be found in the regular fire door catalog No. 420.



Full Size Cut No. 97

R-W Materials

• No. 2035 "Zig-Zag" Power Chain Conveyor

"Zig-Zag" means flexibility . . . with its ability to Zig and Zag vertically, horizontally and up and down . . . Zig-Zag provides unbelievable conveyor flexibility . . . even one-foot radius curves are standard because of the R-W construction of the conveyor.

400 pounds is the rated capacity of a "Zig-Zag" Conveyor. The basic principle of "Zig-Zag" is a patented chain made up from a series of alternating vertical wheel and lateral roller units which run in a tubular steel section.

Any angle or degree can be achieved with a No. 2035 "Zig-Zag" conveyor due to the ability of Zig-Zag to conform to any conveyor configuration.

More detailed information and illustrations are shown in catalog No. A-93—sent free upon request.

Patent Nos. 2,309,587—2,372,199

• Twin-Trak Auto-Dispatch Chain Conveyor

The unique R-W "Twin-Trak" Automatic Dispatch System offers an entirely new concept of efficient and economical handling of materials. This system not only moves materials from one point to another, but will automatically and economically convey products to a predetermined work station or storage area. Storage banks may be installed in the "FREE" area under the building trusses and valuable floor space can be released for production. Products may be automatically moved from storage banks to work stations as they are required.

More detailed information and illustrations are shown in folder No. F-192—sent free upon request.

• No. 460 Power Chain (Lightweight) Conveyor

The No. 460 Continuous Power Chain Conveyor is a lightweight system and has the capacity of 81½ pounds or less on 6" centers. This conveyor is ideal where a 2035 "Zig-Zag" Conveyor would be too big an operation.

The 460 is limited to a 200 foot layout running on a single drive unit.

The No. 460 was designed because of the need for a conveyor to handle lightweight parts.

More detailed information and illustrations are shown in catalog No. A-96—sent free upon request.

Patent No. 2,784,833

Canada Patented 1959

• "Safe-Rail" (Free Trolley) Track Systems

MODERN — STREAMLINED — 1000 POUNDS MAXIMUM CAPACITY

The 2035 safe-rail track was originally developed as a supplement to the ZIG-ZAG power conveyor and formed the perfect companion for the majority of pusher conveyor and "Twin-Trak" applications.

The basic component parts such as straight track, curves, brackets, and drop fittings are identical with those used for the famous ZIG-ZAG conveyor.

More detailed information and illustrations are shown in catalog No. A-94—sent free upon request.

• Trolley Track Conveying Equipment

R-W Industrial Trolley Track conveying equipment operates in much the same manner as the "Safe-Rail" Trolley Track conveyor . . . because of the track construction trolley track conveyors permit use of less expensive carriers.

Trolley track comes in three sizes of track—Nos. 75, 175 and 375 having capacities of 500 and 3000 pounds.

Trolley track systems have been successfully employed for many years in handling of all kinds of materials.

More detailed information and illustrations are shown in catalog No. A-82—sent free upon request.

• "Tru-Tred" I-Beam Conveyor

"Tru-Tred" follows much the same design as a conventional I-Beam system . . . But R-W gives a .40 to .50 carbon manganese track with a .60 - .90 carbon content to provide the customer with 170 to 230 Brinell Hardness in each foot of Richards-Wilcox "Tru-Tred" track . . . from this you can expect a low peening factor.

Running surfaces are machine ground to exact bevel, removing surface scale and providing a smooth running surface for both trolleys and cranes.

R-W "Tru-Tred" track is not to be confused with structural members sharing similarity of design.

More detailed information and illustrations are shown in catalog No. A-64—sent free upon request.

• No. 458 Overhead Chain Conveyor

Capacity 675 lbs. per foot

The No. 458 Overhead Chain Conveyor has long been the work horse of American industry . . . many diversified types of industry employ the use of this type conveyor.

The No. 458 Conveyor Chain is a Keystone Rivetless type, supported by load carrying trolleys rolling on the lower flanges of a 4-inch I-Beam Track.

The chain is mechanically propelled by a caterpillar type drive unit . . . available in a constant or multi-drive unit.

No. 458 Conveyor is not only adaptable to the conventional method of operation . . . but is becoming common place as an Overhead "Tow" type Conveyor used for distributing incoming merchandise and for delivery from stock to packing for outgoing shipments.

Handling Line



2035 "Zig-Zag"



"Twin-Trak"



460 Conveyor



"Safe-Rail"



Trolley Track



"Tru-Tred"



458 Conveyor

Richards-Wilcox

FoldeR-Way[®] SOUND INSULATING and SOUND RETARDING

Partitions

for gymnasiums • auditoriums • school and church classrooms • lodge halls

ELECTRICALLY OR MANUALLY OPERATED

... a real answer to some of the problems of today's high construction costs! R-W FoldeR-Way partitions shave costs from the beginning — by permitting versatile and extensive use of every available foot of floor area in planning. In schools, churches, hotels, restaurants — for gymnasiums, auditoriums, classrooms, stages, swimming pools — FoldeR-Way partitions provide space-saving, profitable dividers for wide-open areas, selectively barring passage of sound, light and traffic.

Backed by seventy-five years of practical manufacturing experience, Richards-Wilcox offers a **complete** line of folding partitions — an answer to every problem. Outstanding installations in all parts of the country attest the popularity and practicality of FoldeR-Way partitions, automatically and manually operated. They can be furnished in all types and combinations of wood, vinyls, metals, or duck coverings to meet the most exacting decorating specifications.

Let your factory-trained R-W engineer survey your problem and recommend the right FoldeR-Way partition for the task. Contact the nearest Richards-Wilcox branch office.

design

Competent Richards-Wilcox engineers are ready to survey your folding partition problems and recommend the FoldeR-Way partition to produce the desired result. Years of research engineering and manufacturing experience go into the design of each R-W folding partition.

production

Extensive modern plant facilities and equipment, coupled with painstaking quality control, enable Richards-Wilcox to produce a complete line of unexcelled folding partitions for every purse and purpose. Materials for each component of every partition are carefully selected for maximum performance and minimum upkeep. Their assembly assures a partition of lasting satisfaction.

R-W guarantee

Upon completion of the installation of any R-W FoldeR-Way partition, the Richards-Wilcox Manufacturing Company will furnish a written guarantee covering satisfactory workmanship, materials, installation, and operation.

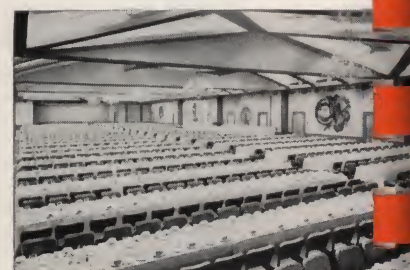
partitions folded



West Senior High School
Aurora, Illinois
Architects: Childs & Smith
Chicago, Illinois



University of Pittsburgh
Pittsburgh, Pennsylvania
Architects: Schmidt, Garden &
Erickson, Chicago, Illinois



Hall of States
Hotel Leamington
Minneapolis, Minn.



Grace McWayne School
Batavia, Illinois
Architect: Raymond A. Orput
Rockford, Illinois



Instruction area
U.S. Army Staff
and Command School

FULL SPECIFICATIONS AND DETAILS SHOWN IN FOLDER F-201

Four way FoldeR-Way partition. Janesville, Wisconsin Senior High School. Law, Law, Potter & Nystrom, Architects



partitions in place



The first folding aluminum
gym partition anywhere.
Deluxe automatic, R-W
No. 200 panels



Deluxe automatic
Specially veneered No. 368CC
Panel with chalkboard



No. 135 top supported
center hung. No. 368
panels. Special application

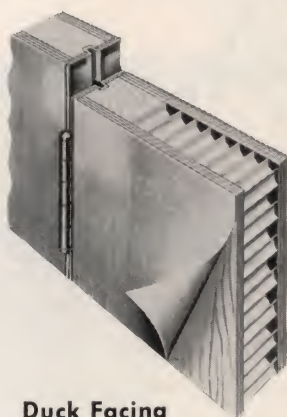


No. 237 top supported
edge hung installation.
No. 368 panels with chalkboard

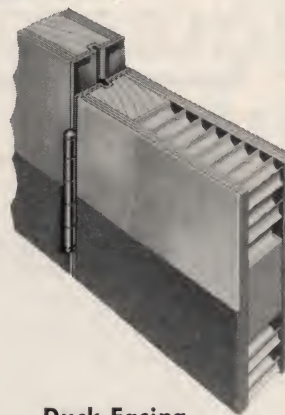


Four way partition.
No. 535 operation, floor
supported, No. 368B panels

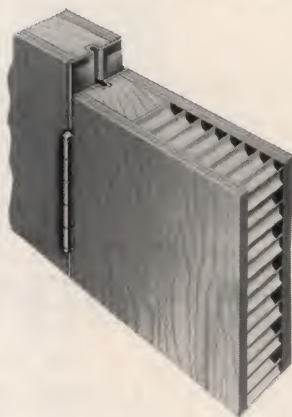
types of panels • construction



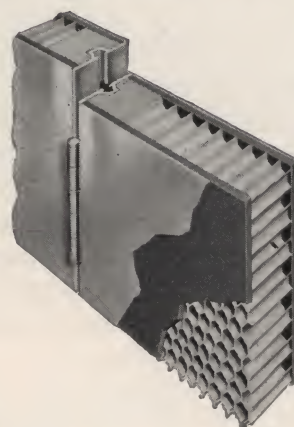
Duck Facing



Duck Facing



Plywood Facing



Aluminum Facing

operating equipment

• ELECTRICALLY OPERATED

R-W Deluxe fully automatic partition • top hung

power unit — Electrical equipment includes UL approved motor, speed reducer, magnetic brake, relay, friction clutch, limit switches and key switch with OPEN-STOP-CLOSE control. Unit is wired, assembled and ready for connection to power source. Emergency release provided permits manual operation in case of temporary power failure. Power unit assures correct operation under all conditions, eliminating entirely the human element.

• MANUALLY OPERATED

R-W No. 135 top-hung partition • height as required

Operating equipment includes four-wheel ball bearing adjustable hangers, lock joint enclosed track, steel supporting brackets, flush pulls, flush bolts, hinges and all operating devices for jamb and pocket doors. Hangers are located at each alternate full width door. Hardware correctly scaled to weight and size of doors.

R-W No. 237 top-hung partition • to 10' high

Operating equipment includes adjustable two-wheel ball bearing hangers, self-adjusting floor guides, R-W lock-joint enclosed track, steel supporting brackets, flush pulls, flush bolts, and either butt or invisible hinges. Hangers are located at outside corner of each panel pair.

R-W No. 535 floor bearing partition • height as required

Operating equipment includes steel top and bottom tracks, adjustable bottom rollers, top guides, pivots, spring expansion units, safety folding-locking mechanism, and either butt or invisible hinges. Each pair of doors is carried on two bottom rollers.

Richards-Wilcox

"In-A-Wall"

Wardrobes (Wood or Steel)

... a real answer to some of the problems of today's high construction costs! R-W "In-A-Wall" Wardrobes shave costs from the beginning — by permitting versatile and extensive use of every available foot of floor area in planning.

Backed by seventy-five years of practical manufacturing experience, Richards-Wilcox offer a **complete** line of wardrobes — an answer to every problem. Outstanding installations in all parts of the country attest the popularity and practicality of "In-A-Wall" Wardrobes—pair, multiple and individually operated. They can be furnished in all types and combinations of wood or metal, to meet the most exacting decorating specifications.

Let your factory-trained R-W engineer survey your problem and recommend the right "In-A-Wall" Wardrobes for the task. Contact the nearest Richards-Wilcox branch office.

design

Competent Richards-Wilcox engineers are ready to survey your wardrobe problems and recommend the "In-A-Wall" Wardrobe to produce the desired result. Years of research engineering and manufacturing experience go into the design of each R-W Wardrobe.

production

Extensive modern plant facilities and equipment, coupled with painstaking quality control, enable Richards-Wilcox to produce a complete line of unexcelled wardrobes for every purse and purpose. Materials for each component of every wardrobe are carefully selected for maximum performance and minimum upkeep. Their assembly assures a wardrobe of lasting satisfaction.

R-W guarantee

Upon completion of the installation of any R-W "In-A-Wall" wardrobe, the Richards-Wilcox Manufacturing Company will furnish a written guarantee covering satisfactory workmanship, materials, installation, and operation.



With today's high construction costs it is imperative that all available wall space be utilized to best advantage. The "In-A-Wall" Wardrobes may be equipped with either cork bulletin boards or chalk boards and chalk rails as desired. Cork board and chalk board are available in various sizes and colors ... for complete color harmony pick a color to complement the wardrobe units and surrounding interior decorations.

Fill Your Exact Requirements Easily . . .



Styles Available

- NO. 785 "IN-A-WALL" WOOD OR STEEL CLASSROOM WARDROBES. (Individual Operation.) CATALOG A-610
- NO. 883 WOOD OR STEEL CLASSROOM WARDROBES (Multiple Operation.) FOLDER F-123
- NO. 781 WOOD CLASSROOM WARDROBES. (Pair Operated.) FOLDER F-110
- "VERTICAL-LIFT" WARDROBES. WOOD OR ALUMINUM. FOLDER F-186

Richards-Wilcox Wardrobes . . . Offers You

- Effective Ventilation.
- Easy Installation.
- Simple Operation.
- Years of Craftsmanship Behind Every R-W Wardrobe.

Airplane Hangar Door Equipment

MAKE YOUR DOORS AND HARDWARE 100% R-W

Richards-Wilcox has manufactured large doors for a great number of large openings . . . Not only do we manufacture the doors themselves, but also manufacture many styles of hardware in our own factory, under one roof, assuring the customer that both doors and hardware are "made for each other."

For detailed information on all R-W Airplane doors and hardware, see Catalog No. 440.

MANY TYPES OF DOOR CONSTRUCTION

Richards-Wilcox features many styles of door construction. Included in these are: corrugated steel, laminated wood section door with rugged steel angles . . . newly introduced is an aluminum hangar door.

This new aluminum door provides a new concept in modern styling and dependable, efficient operation by combining the latest in structural design with the added strength and beauty of aluminum.

R-W aluminum hangar doors are a rigid sandwich type structure. Each panel consists of an extruded aluminum frame and a resin impregnated honeycomb core to which is permanently bonded the embossed aluminum facings.

ELECTRICALLY OR MANUALLY OPERATED

R-W Electric "Aut-O-Dor" operators were designed and developed to economically meet the requirements of today's industry . . . and, most important, to fulfill these requirements for years to come.

We sincerely advise and invite your comparison of R-W Electric "Aut-O-Dor" operators against all other automatic door openers on the market . . . you can't buy a finer automatic door opener than a R-W Electric "Aut-O-Dor" Operator.



● PARTIALLY OPEN



● CLOSED

ABOVE INSTALLATION

The above photos show the newly designed aluminum hangar doors recently introduced by Richards-Wilcox Manufacturing Co. This particular installation which is a bi-parting sliding type is electrically operated by an R-W "Aut-O-Dor" operator. This is a No. 1266 with a special fluid drive operation. The fluid drive gives all the doors smooth acceleration when starting, saving wear and tear on door hardware.

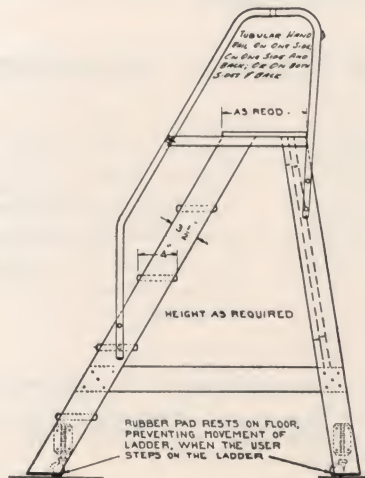
Rolling Ladders

- Ceiling
- Rolling Floor

Many styles of ladders are featured by Richards-Wilcox . . . whether you're buying a ceiling ladder for your store or buying a rolling floor safety ladder. R-W ladders are made from high quality material with over 75 years of craftsmanship behind us . . . you can look for high quality if it is made by R-W. A complete catalog will be sent to you merely for the asking which illustrates all types of operations. Ask for catalog No. 430.

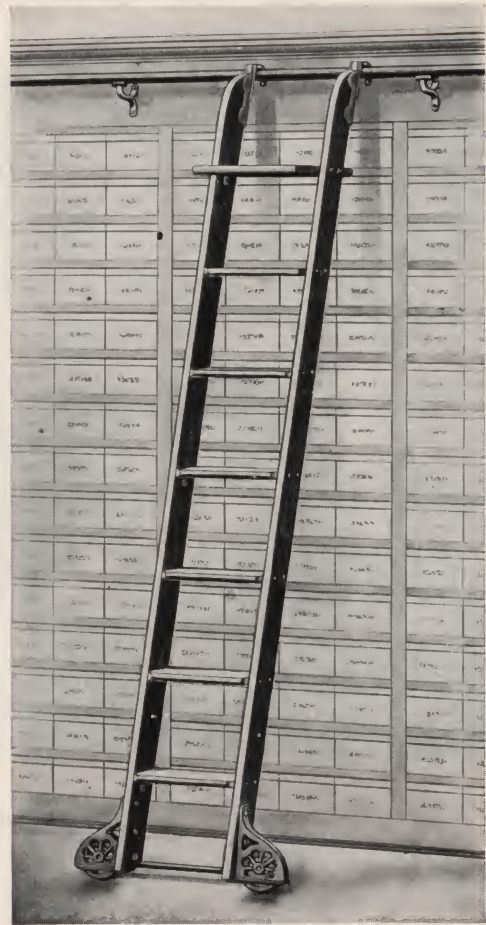
Rolling Floor

The R-W rolling safety ladder is one of the most versatile of all ladders for use where a portable type is desired. This style is available with or without hand rails having either swivel or fixed casters. This type as all R-W ladders are made special as to height. Widths are determined by height unless specified by the buyer.



Automatic Self Brake

For use on all ceiling type ladders. With this type automatic self-brake, your accident rate will be lessened. When a person steps on the first rung the ladder is automatically set so it will not slip causing an accident . . . When the person steps off the ladder it raises, thus making it easy to push from one point to another.



No. 116 Portable Store Ladder.



Nos. 114 and 117 at left, Nos. 114-B and 117-B at right. The only difference in these ladders is in the upper track No. 114 being a pole, the No. 117 being made of steel.

Stage Curtain Equipment



Outstanding Features

- Electric or manual operation.
- Complete engineering service available to meet your exact needs.
- Many styles of operation are available to solve any problem.
- Sidewall or overhead attachment suspension of track.

MANUAL OR ELECTRIC OPERATION

Curtain track installations are not confined to theatres and schools as there are many types of buildings where small or large stages are used. In cases of large openings or where electrically operated curtains are desired Richards-Wilcox have manufactured for over 45 years a quality built electric operator for this type of operation.

Various styles are featured by R-W and can be found in the supplementary catalog No. 450.

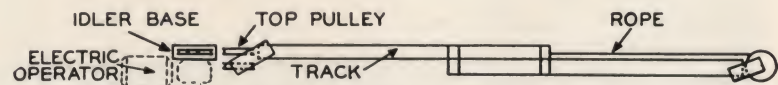
Above photo is a typical view of an R-W curtain track installation. The curtains are in the closed position across the stage proper. The track is suspended from the ceiling by chains or cables. Often times this is done because of insufficient space to attach by side brackets.



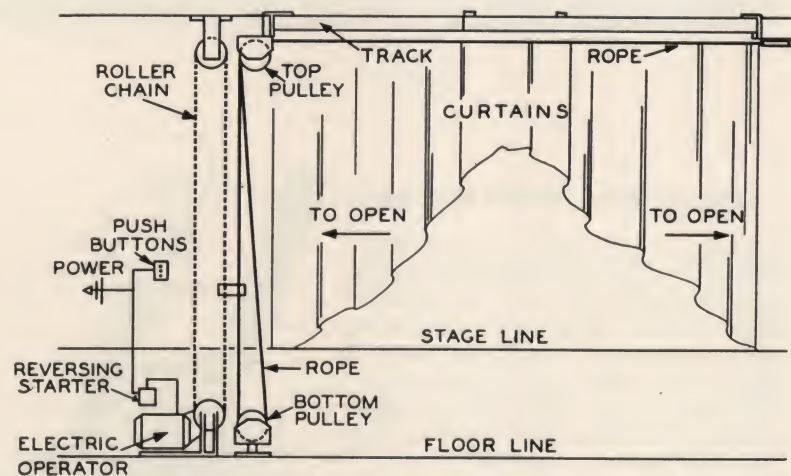
ELECTRICALLY OPERATED

When next planning an installation of stage curtain equipment . . . call the R-W engineer . . . nearest you. He is most qualified to suggest the style of operation best suited for you . . . at the same time possibly saving you many dollars.

A colorful 12 page catalog No. 450 is yours simply for the asking which fully illustrates all of the styles of operation offered by Richards-Wilcox . . . The Name Quality Built.



PLAN VIEW



TYPICAL MOTORIZED CURTAIN LAYOUT

R-W Open Front Hardware



A QUAINT VILLAGE MARKET

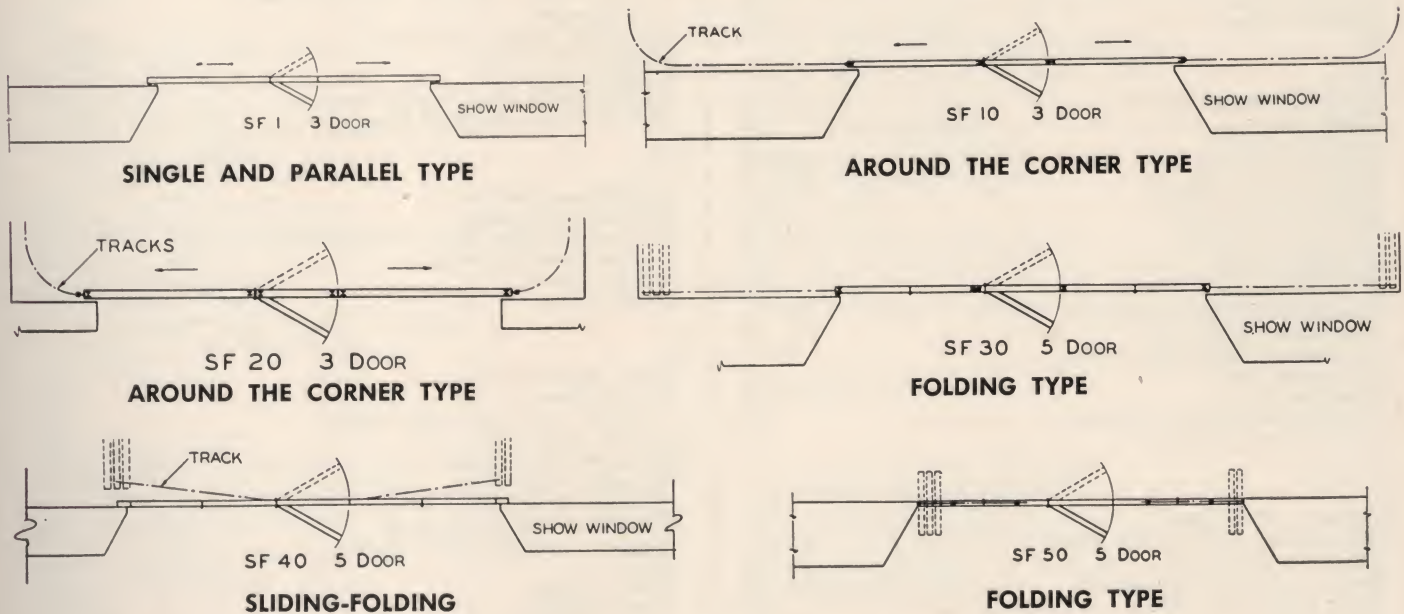
R-W Open Front Hardware offers a modern unique way to capture warm breezes and the sun light of the true out of doors — creating an indoor-outdoor atmosphere that is appealing and enjoyable to everyone.

Whether it be an eating place, market or in an amusement park — Open Front Hardware captures the atmosphere making the surroundings more appealing.

The line drawings below illustrate the basic arrangements that can be used with this type hardware. All installations are especially engineered usually starting from the basic designs shown below.

See the R-W engineer nearest you — he will show you how to make your place of business more appealing with the use of R-W Open Front Hardware.

Create an indoor-outdoor atmosphere that will pay high dividends at low up-keep costs.



Required data for layouts

- State Preference of Style-Layout Desired . . . From Above Drawings.
- Architectural Details of Building Required for Area of Installation.
- Give Weight, Height and Width of Doors to Be Used.



The Modern Way to Create Outdoor-Indoor Atmosphere

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572 End Stop.....	140	836 Hinges.....	154	1176 Ladder.....	185	2150 1/2 Sets.....	37
573 Bottom Roller.....	184	883 Wardrobe.....	182-183	1177 Ladder.....	185	2151 1/2 Sets.....	37
578 Bumper.....	184	888 Hangers and Track	43, 71	1201 Hardware.....	176-177	2201 Hardware.....	176-177
586 Bumper.....	184	910 Clamps.....	178-179	1203 Hardware.....	176-177	2203 Hardware.....	176-177
587 Bumper.....	184	925 Trolley.....	162	1204 Hardware.....	176-177	2204 Hardware.....	176-177
588 Bumper.....	184	925 XHI Trolley.....	162	1221 Hangers.....	9	2235 Hardware.....	164
589 Bumper.....	184	928 I-Beam Hanger.....	165	1265 Operator.....	172-173	2302 Hardware.....	176-177
596 Link.....	176-177	929 I-Beam Hanger.....	165	1266 Operator.....	172-173	2303 Hardware.....	176-177
598 Hanger.....	72	931 Switch.....	178-179	1275 Operator.....	172-173	2304 Hardware.....	176-177
602 Hardware.....	176-177	932 Switch.....	178-179	1276 Operator.....	172-173	2305 Hardware.....	176-177
604 Hardware.....	176-177	933 Switch.....	178-179	1285 Operator.....	172-173	2315 Hardware.....	176-177
605 Hardware.....	176-177	934 Switch.....	178-179	1295 Operator.....	172-173	2347 Door.....	174-175
606 Hardware.....	176-177	999 Hardware.....	30-31	1302 Hardware.....	176-177	2351 Hardware.....	176-177
609 Ladder.....	185	999-1 Hardware.....	30-31	1303 Hardware.....	176-177	2352 Hardware.....	176-177
617 Bolt.....	124	1017 Bolt.....	125	1304 Hardware.....	176-177	2353 Hardware.....	176-177
617 x 427 Bolt.....	124	1018 Hanger.....	4, 5	1305 Hardware.....	176-177	2354 Hardware.....	176-177
617 x 527 Bolt.....	124	1019 Hanger.....	4, 5	1308 Operator.....	172-173	2402 Hardware.....	176-177
621 Hanger.....	56	1019 Floor Guide.....	5	1310 Operator.....	172-173	2406 Hardware.....	176-177
630-S Vises.....	144	1019 Track.....	4	1314-1 Hangers.....	47	2434 Hangers.....	12
635 Hinges.....	155	1019-1 Door Pull.....	5	1335 Bolt.....	123	2435 Hangers.....	12
636 Hinge.....	154	1019-2 Flush Pull.....	5	1402 Hardware.....	176-177	2499 Sets.....	37
640 Hardware.....	176-177	1019-3 Pull.....	5	1406 Hardware.....	176-177	2506 Hardware.....	176-177
641 Hardware.....	176-177	1020-2 Sets.....	36	1434 Hardware.....	164	2546 Sets.....	145
642-5 Hangers.....	85	1020 1/2 Sets.....	36	1499 Sets.....	36	2598 Sets.....	37
643 Closer.....	160	1025 Latch.....	117	1500 Operator.....	172-173	2602 Hardware.....	176-177
645 Hardware.....	176-177	1025 Sets.....	36	1501 Operator.....	172-173	2604 Hardware.....	176-177
646 Hardware.....	176-177	1026 Hangers.....	47	1506 Hardware.....	176-177	2605 Hardware.....	176-177
647 Door.....	176-177	1027 1/2 Sets.....	36	1508 Operator.....	172-173	2640 Hardware.....	176-177
670 Pull.....	130	1028 Sets.....	36	1510 Operator.....	172-173	2641 Hangers.....	176-177
671 Guide.....	140	1028 1/2 Sets.....	36	1546 Sets.....	145	2641 Hardware.....	176-177
671 Stop.....	140	1029 Sets.....	36	1598 Sets.....	36	2645 Hardware.....	176-177
686 Hangers.....	186	1029 1/2 Sets.....	36	1602 Hardware.....	176-177	2646 Hardware.....	176-177
687 Hangers.....	186	1030 Trolley.....	163	1604 Hardware.....	176-177	3019 Hanger.....	4, 5
688 Hangers.....	186	1031 Trolley.....	163	1605 Hardware.....	176-177	3900 Tru-Tred Track	178-179
689 Hangers.....	186	1035 Hardware.....	22-29	1640 Hardware.....	176-177	7988 Set.....	38
690 Track.....	186	SS 1035 Hardware.....	22-25				

For Correct "Hand" of RW Doors See Page 2



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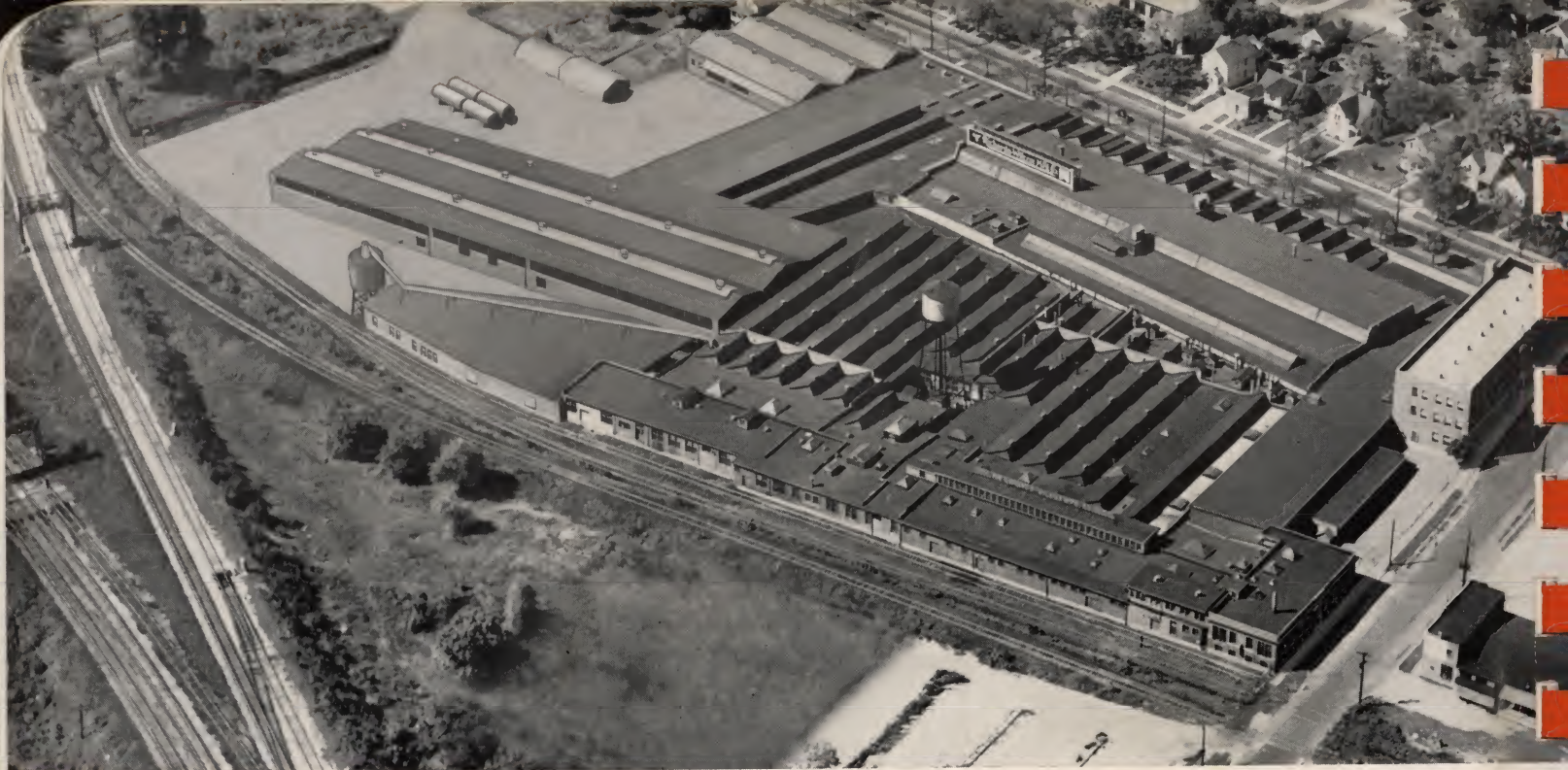
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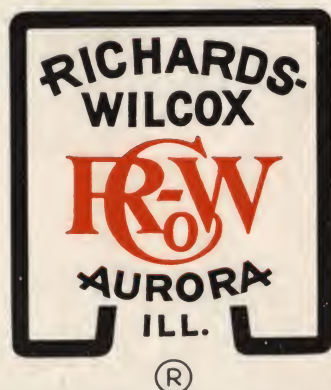


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